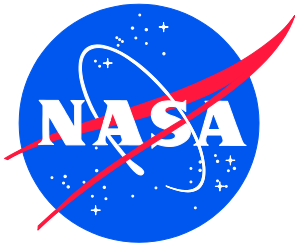
NASA/TM–2015-218781/Volume II/Part 3
NESC-RP-12-00783





Empirical Model Development for Predicting Shock Response on Composite Materials Subjected to Pyroshock Loading

Appendices

Steven J. Gentz/NESC
Langley Research Center, Hampton, Virginia

David O. Ordway, David S. Parsons, Craig M. Garrison, C. Steven Rodgers, and Brian W. Collins
Marshall Space Flight Center, Huntsville, Alabama

July 2015

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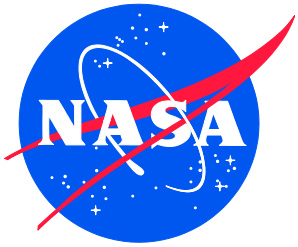
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  Hampton, VA 23681-2199

NASA/TM–2015-218781/Volume II/Part 3
NESC-RP-12-00783





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National Aeronautics and
Space Administration

Langley Research Center
Hampton, Virginia 23681-2199

July 2015

Acknowledgments

The team would like to acknowledge the following for providing their expertise:

Dr. Curt Larsen/Johnson Space Center (JSC), of the NESC, for championing the Pyroshock Characterization of Composites task.

Mr. Ken Johnson/MSFC for his tireless support statistically analyzing the post-processed acceleration data.

Mr. Lee Allen/MSFC for supporting Ken Johnson in statistically analyzing the post-processed data

Ms. Barbara Breithaupt/MSFC for post-processing the pseudo-velocity data.

Mr. Justin Jackson/MSFC for providing his expertise in composite test panel fabrication.

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Empirical Model Development for Predicting Shock Response on Composite Materials Subjected to Pyroshock Loading

Volume II: Appendices

Part 3

April 16, 2015

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Appendix B. Pyroshock Test Reports (concluded)

B5. Group IV (MAF Panel Tests)

The test report documenting the test results for the Group panel tests with and without MAF bonded to the panel are documented in the attachment below.

National Aeronautics and Space Administration
George C. Marshall Space Flight Center
Marshall Space Flight Center, AL 35812

January 9, 2015

Reply to Attn of: ET40-15-004

TO: EV32/David O. Ordway

FROM: ET40/Timothy C. Driskill

SUBJECT: Composite Materials Acoustic Foam Pyroshock Development Test, Tests 1 to 10, NESC-DEV-14-040

REF: ED73.1

The solid and sandwich composite panels and the aluminum panel test articles were tested in the ET40 Pyrotechnic Shock Facility, building 4619, room 170. Testing was completed on September 5, 2014. The test was run in accordance with Test and Checkout Procedure, (TCP) NESC-DEV-14-040. All test articles except 2 of the sandwich composite panels were tested without damping foam attached to them. All of the test articles were tested with damping foam attached to the panels. A total of 10 tests were performed.

The accelerometer test setup is shown in appendix A of the TCP and in the photographs section of this report. No post-test observations were noted.

Please direct any questions or comments regarding this test to Mr. Craig Garrison at (256) 544-7197 or craig.garrison@nasa.gov.

Timothy C. Driskill
Branch Chief
Structural Dynamics Test Branch

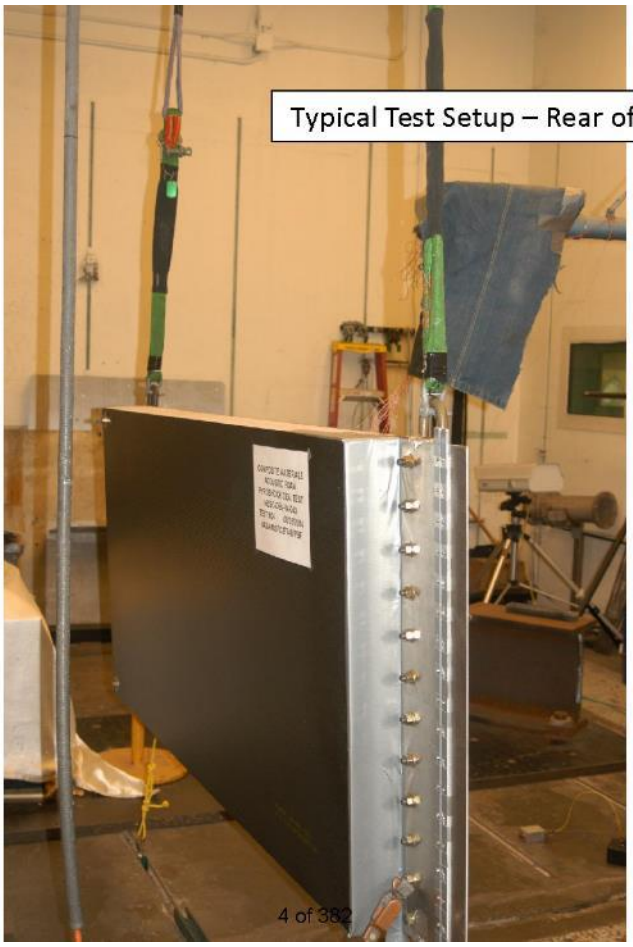
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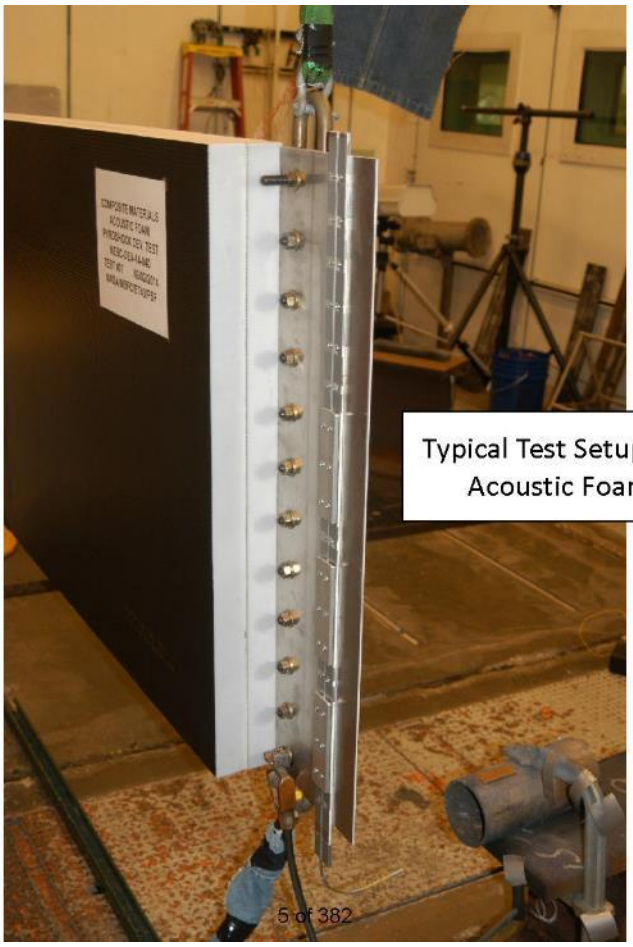
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ET40/File
C105/Steve Gentz
ES22/David Parsons

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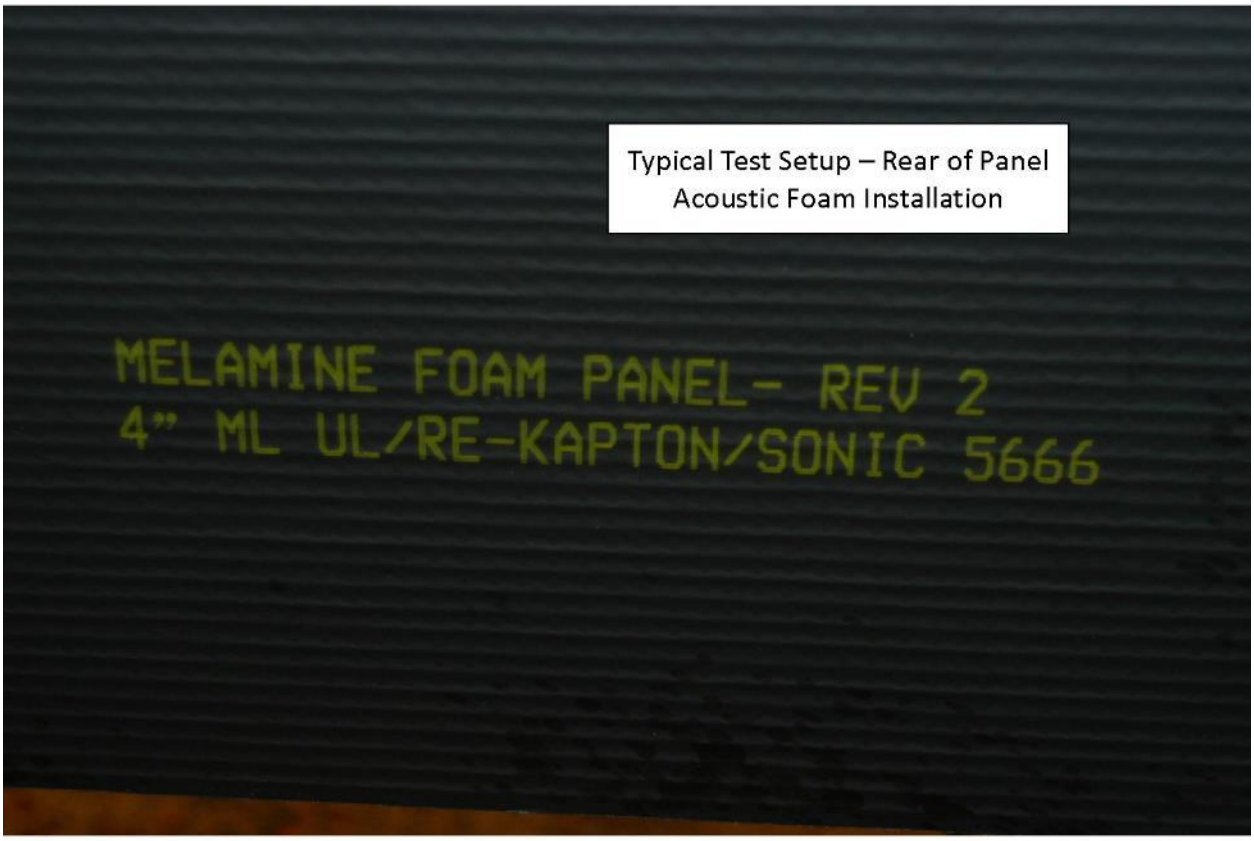

NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
General Test Setup
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Typical Test Setup – Front of Panel
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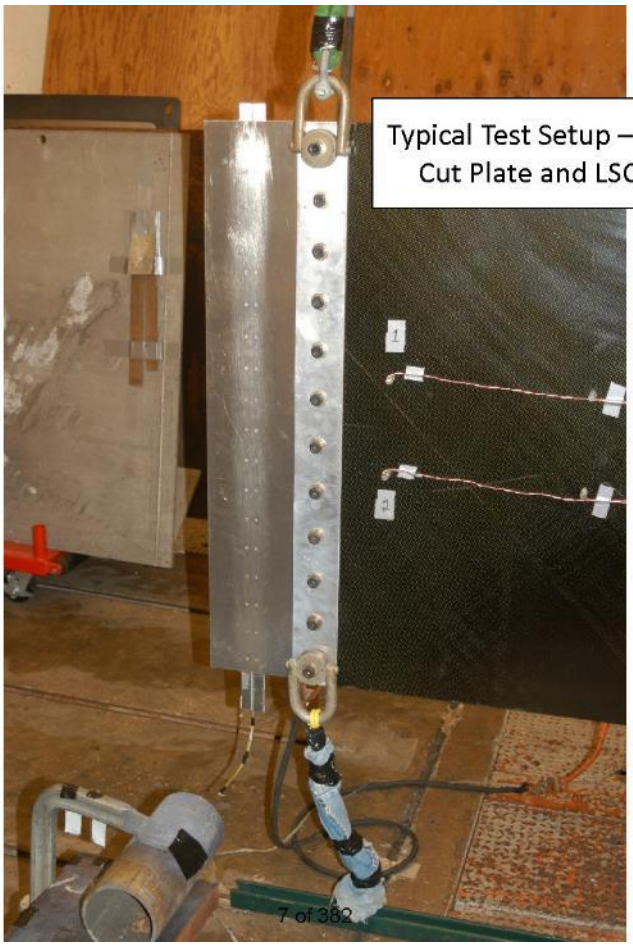

Typical Test Setup – Rear of Panel
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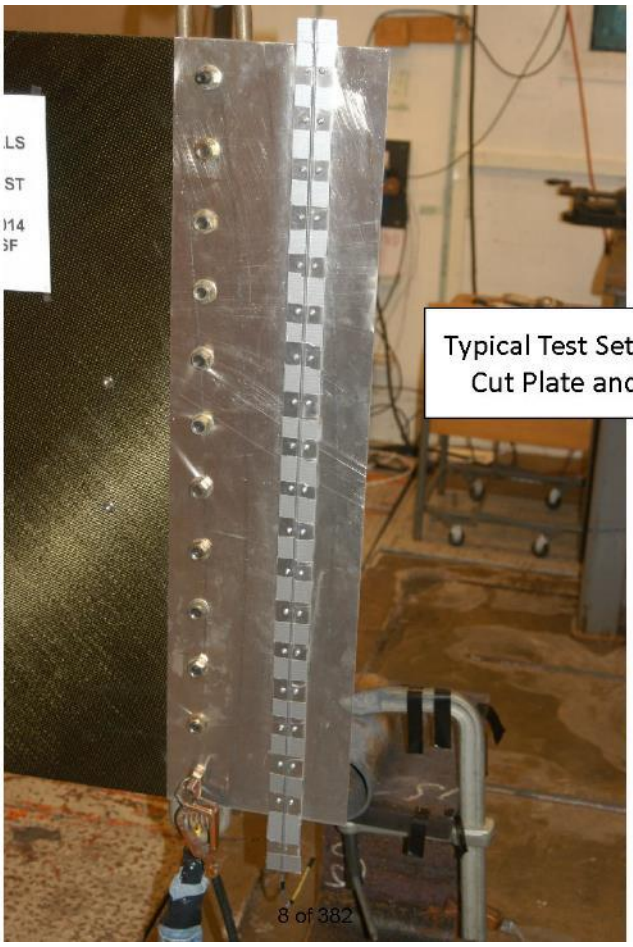


Typical Test Setup – Rear of Panel
Acoustic Foam Installation

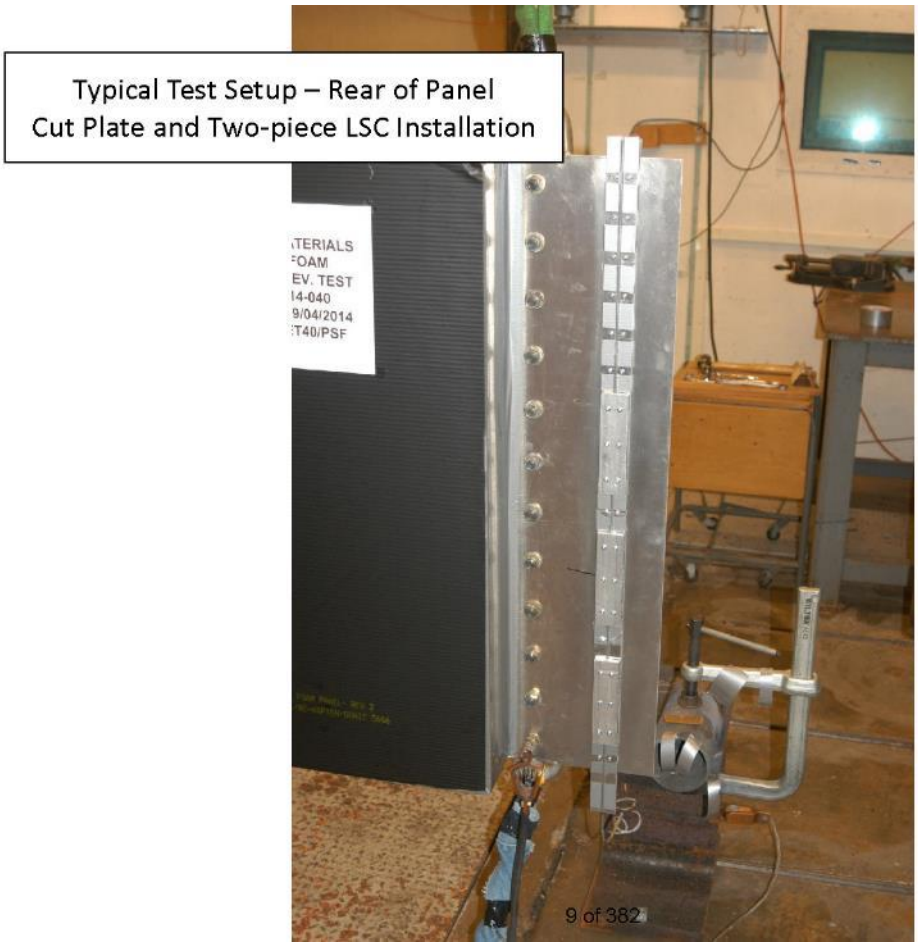

Typical Test Setup – Rear of Panel
Acoustic Foam Installation
MELAMINE FOAM PANEL- REV 2
4" ML UL/RE-KAPTON/SONIC 5666

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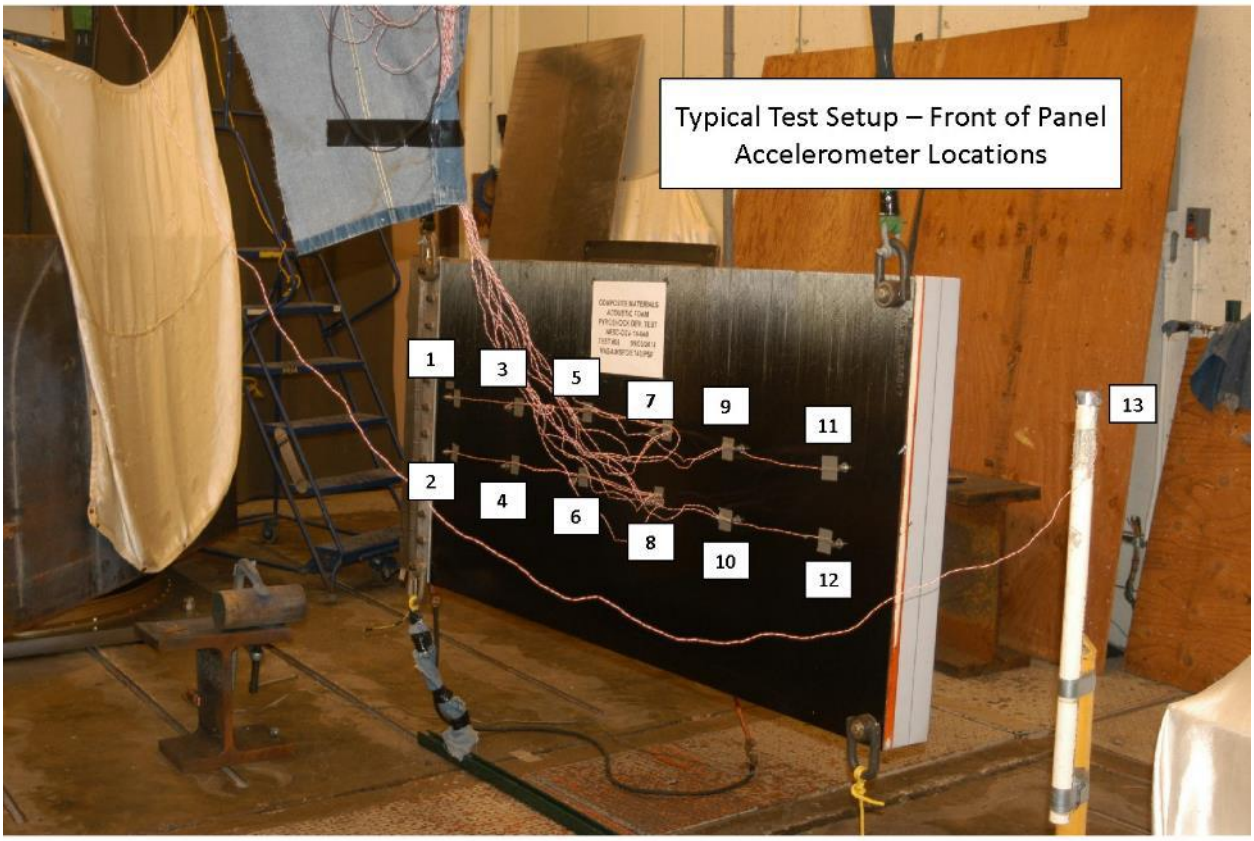

Typical Test Setup – Front of Panel
Cut Plate and LSC Installation
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Typical Test Setup – Rear of Panel Cut Plate and LSC Installation


Typical Test Setup – Rear of Panel
Cut Plate and Two-piece LSC Installation
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Typical Test Setup – Rear of Panel
Cut Plate and Two-piece LSC Installation
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Typical Test Setup – Front of Panel
Accelerometer Locations
1
2
3
4
5
6
7
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9
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11
12
13

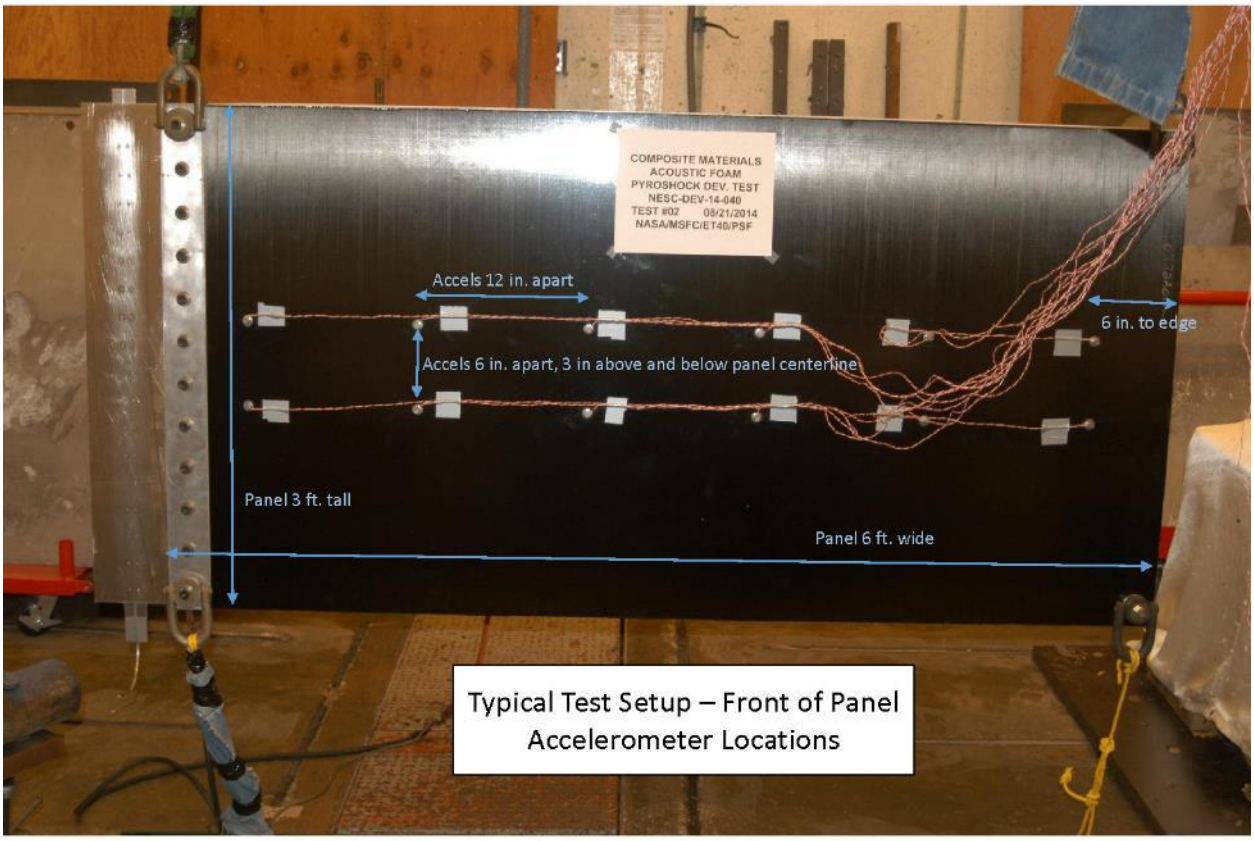
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Test Matrix As Run			
Test	Date	Panel ID	Test ID
1	8-20-14	0332A017	Group 4 - Test 1
2	8-21-14	0332A012 with foam	Group 4 - Test 2
3	8-25-14	0326A008	Group 4 - Test 3
4	8-26-14	0332A018 with foam	Group 4 - Test 4
5	8-26-14	0332A011	Group 4 - Test 5
6	8-27-14	Aluminum Pathfinder	Group 4 - Test 6
7	9-2-14	Aluminum Pathfinder with foam	Group 4 - Test 7
8	9-3-14	0332A017 with foam	Group 4 - Test 8
9	9-4-14	0332A011 with foam	Group 4 - Test 9
10	9-5-14	0326A008 with foam	Group 4 - Test 10

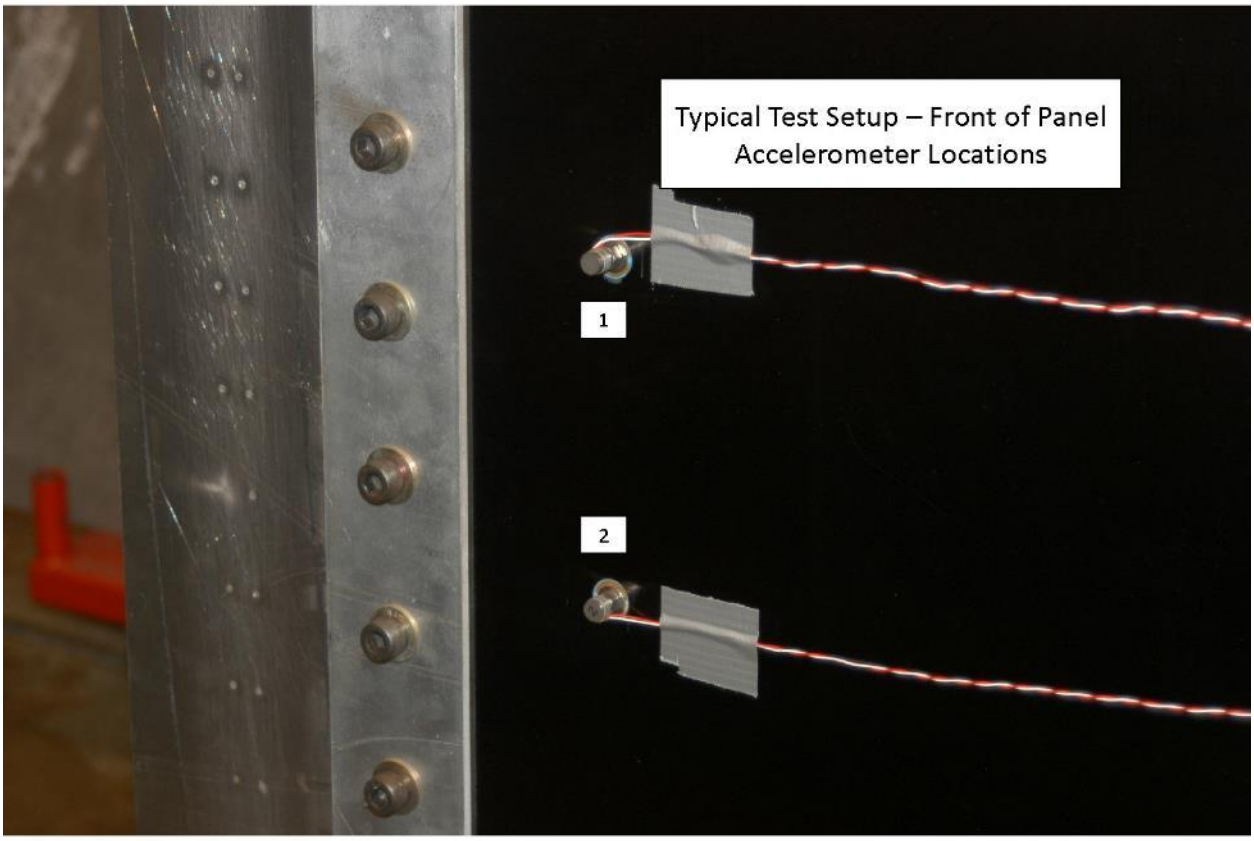
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Panel Location	Set 1 Accelerometers	Set 2 Accelerometers
1	350C02 31334	350D02 43026
2	350D02 43026	350C02 31340
3	350D02 43028	350C02 31338
4	350C02 31331	350D02 43028
5	350C02 31328	350D02 43373
6	350D02 43373	350C02 31333
7	350D02 43179	350C02 40292
8	350C02 31351	350D02 43179
9	350C02 31330	350D02 43180
10	350D02 43180	350C02 40295
11	350D02 43181	350C02 31336
12	350C02 40274	350D02 43181
13	350B02 11439	350B02 11439
Set 1 used in tests 1, 3, 5, 7, and 9 Set 2 used in tests 2, 4, 6, 8, and 10		

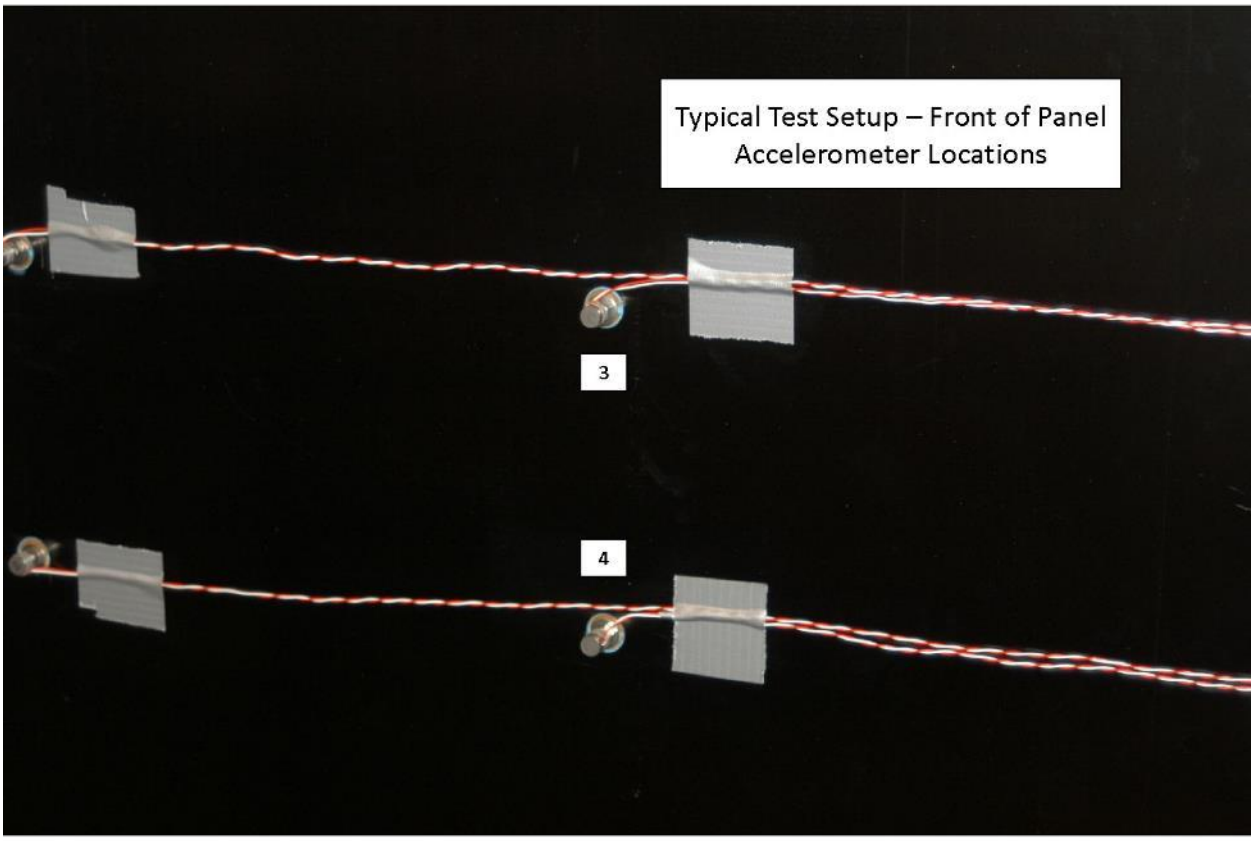
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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #02 08/21/2014
NASA/MSFC/ET40/PSF
Accels 12 in. apart
6 in. to edge
Accels 6 in. apart, 3 in above and below panel centerline
Panel 3 ft. tall
Panel 6 ft. wide
Typical Test Setup – Front of Panel
Accelerometer Locations

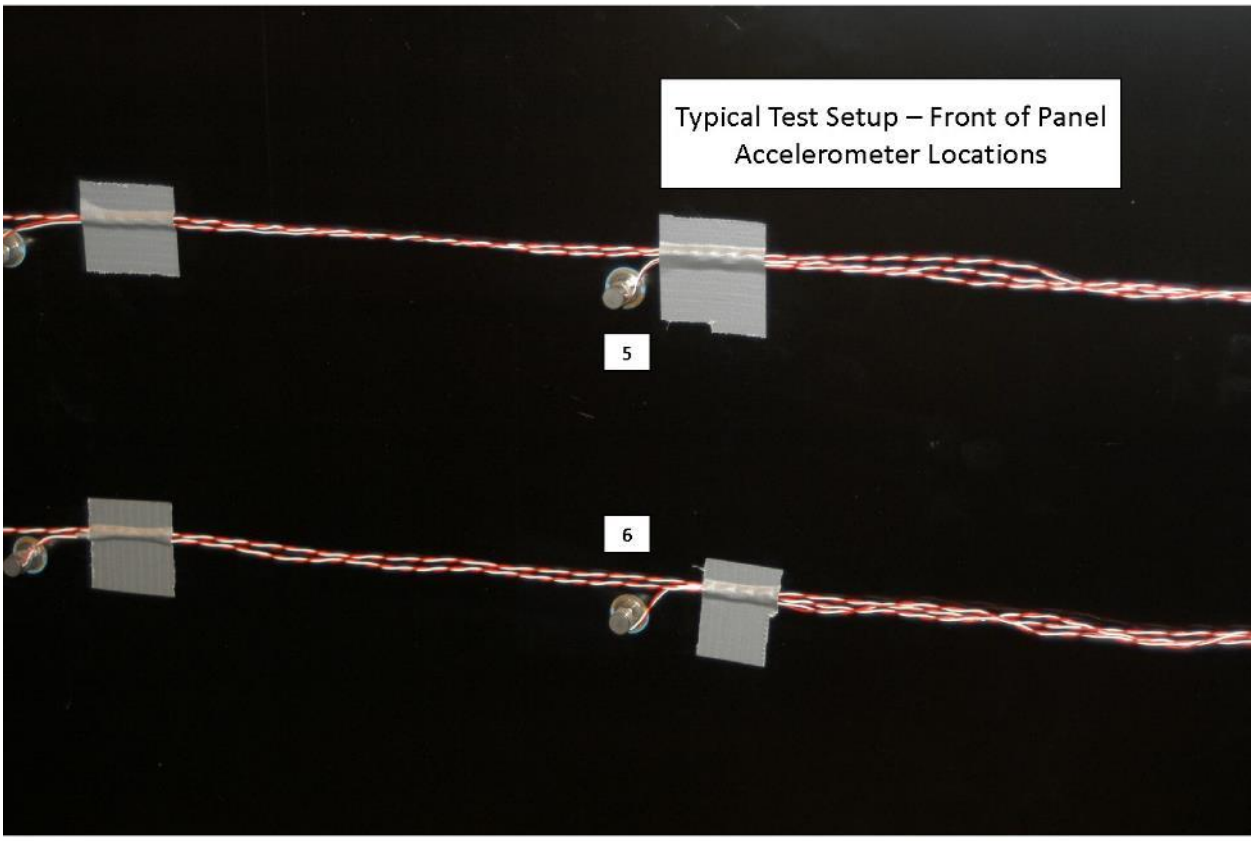
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Typical Test Setup – Front of Panel
Accelerometer Locations
1
2

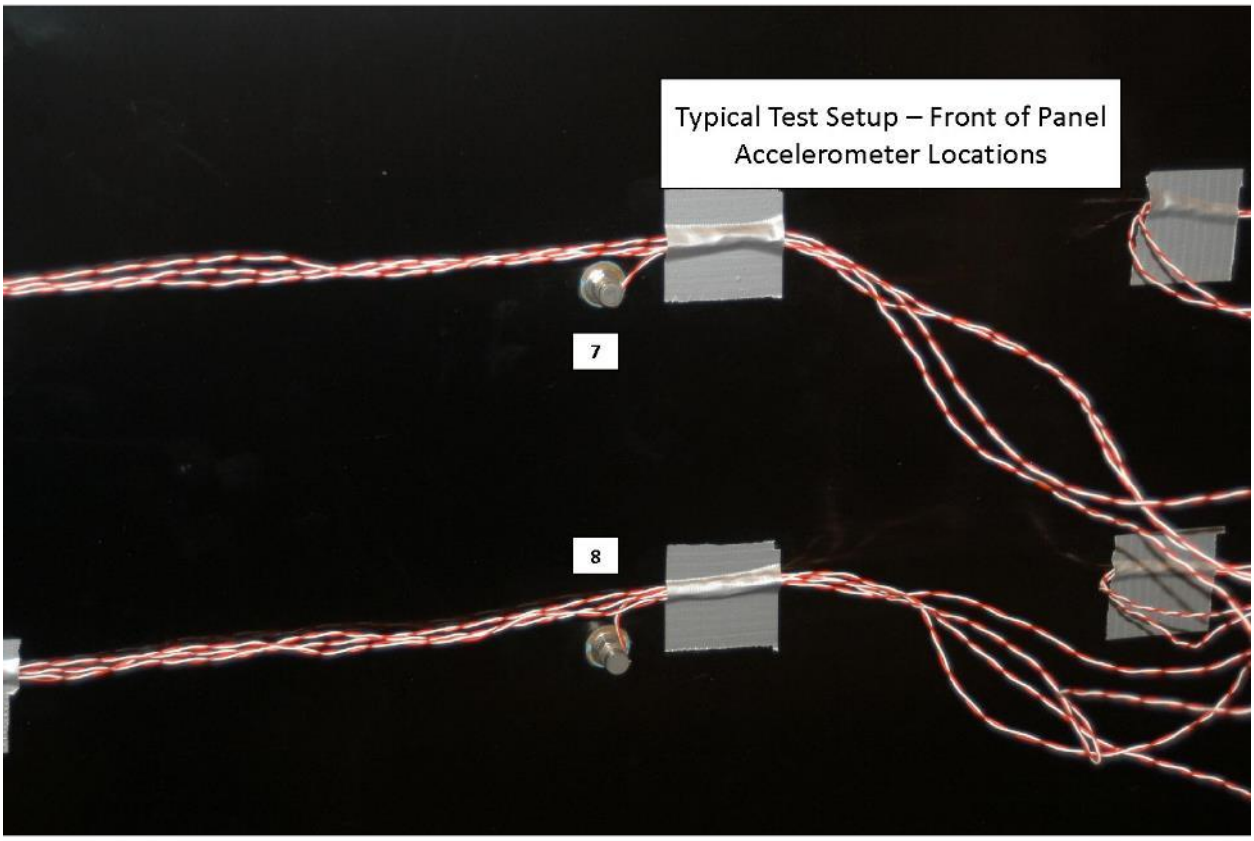
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Typical Test Setup – Front of Panel
Accelerometer Locations
3
4

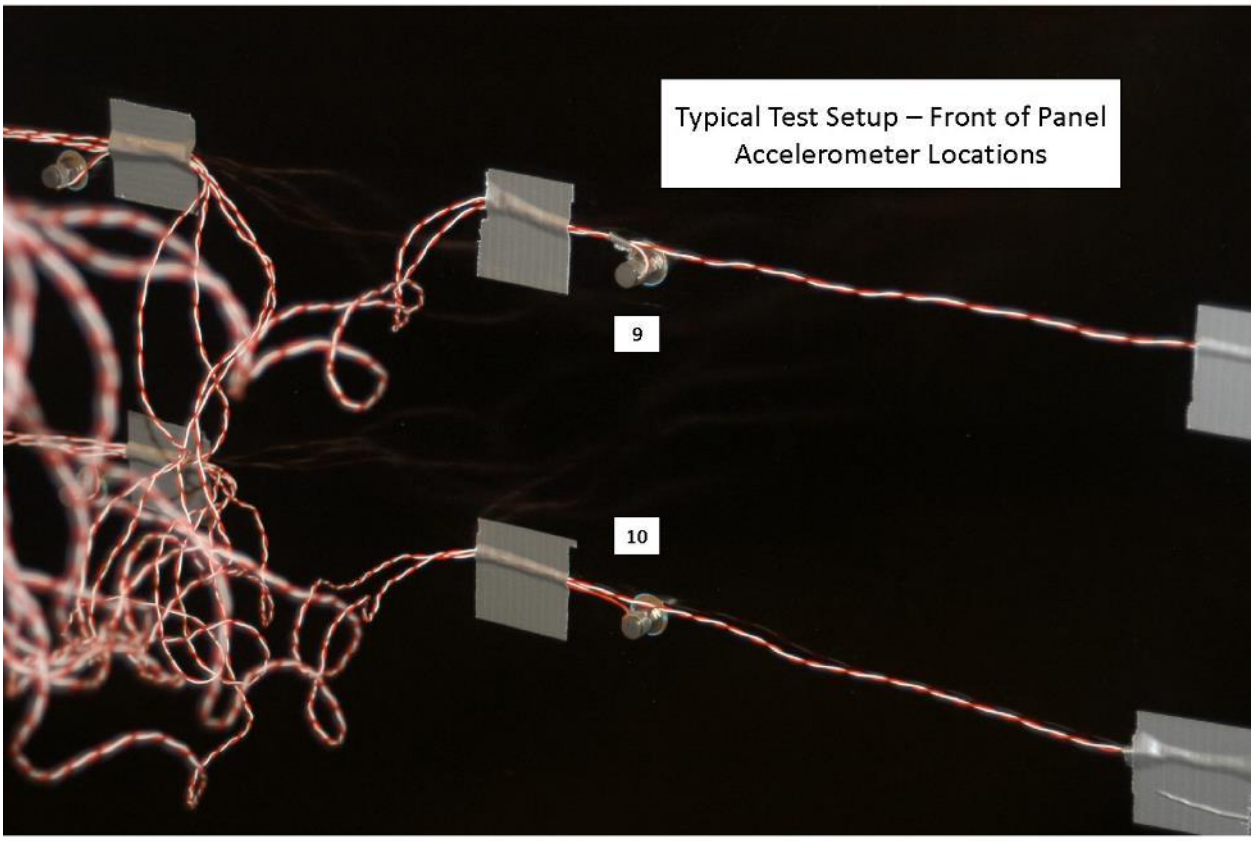
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Typical Test Setup – Front of Panel
Accelerometer Locations
5
6

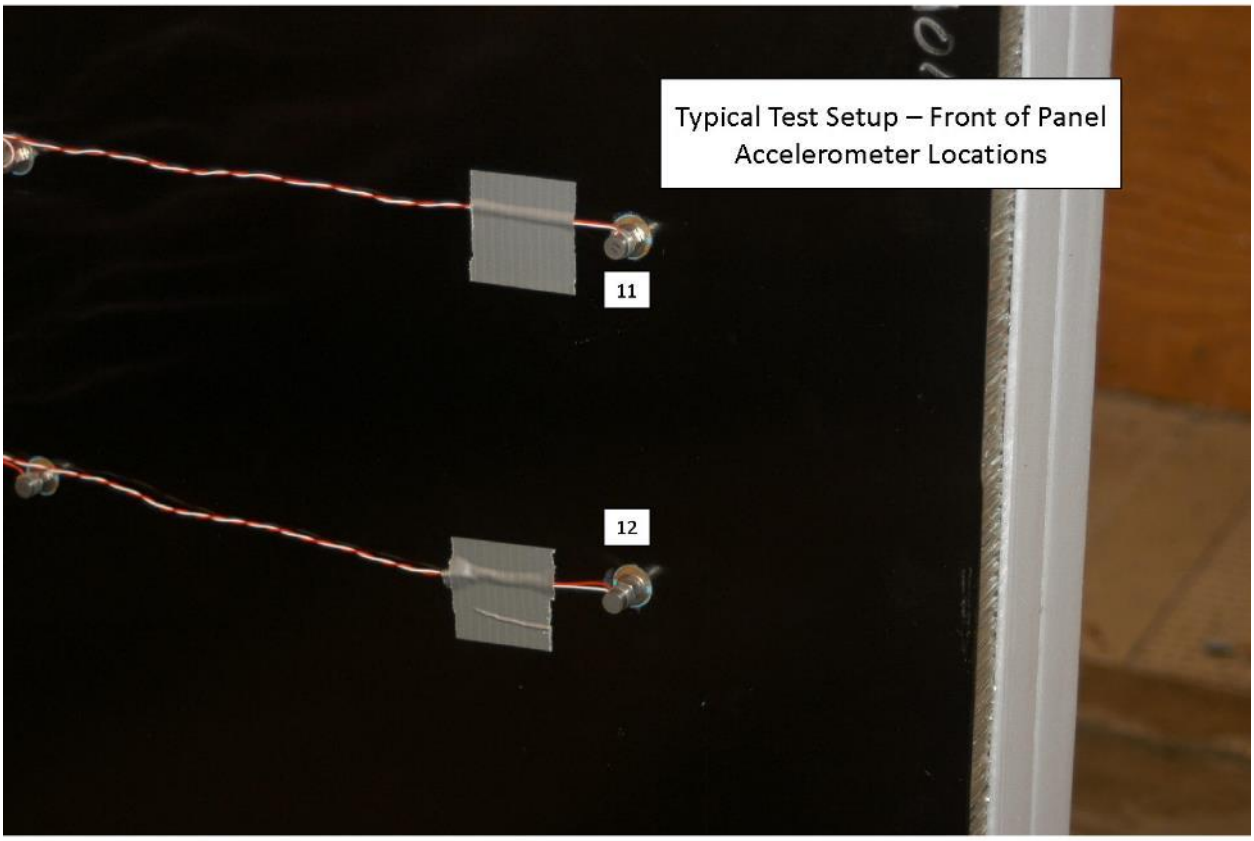
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Typical Test Setup – Front of Panel
Accelerometer Locations
7
8

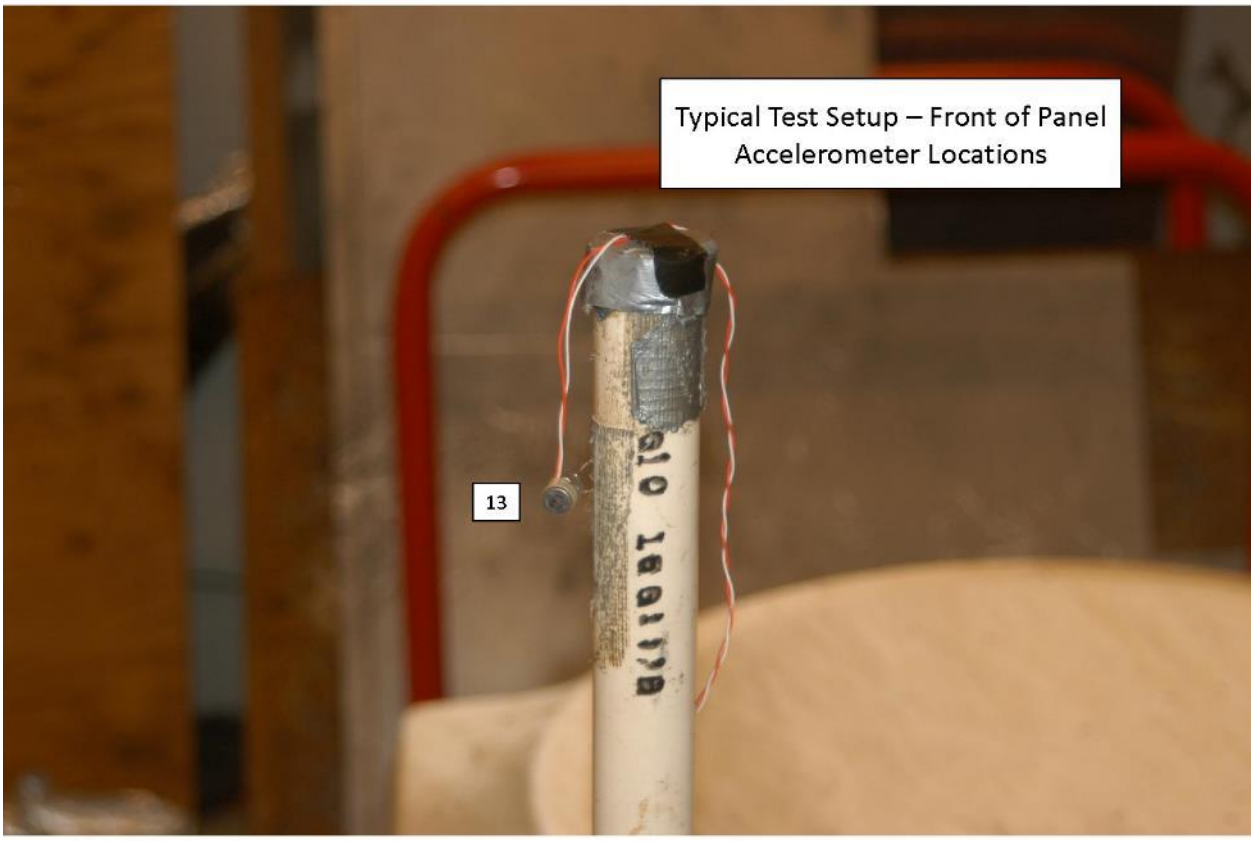
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Typical Test Setup – Front of Panel
Accelerometer Locations
9
10

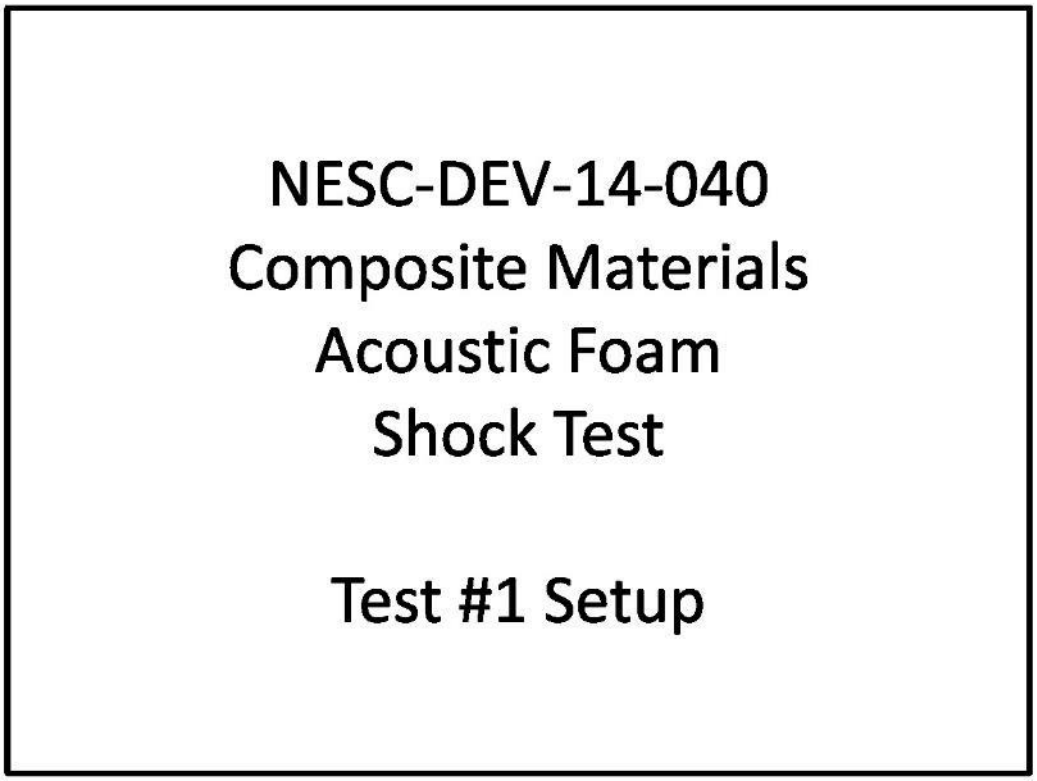
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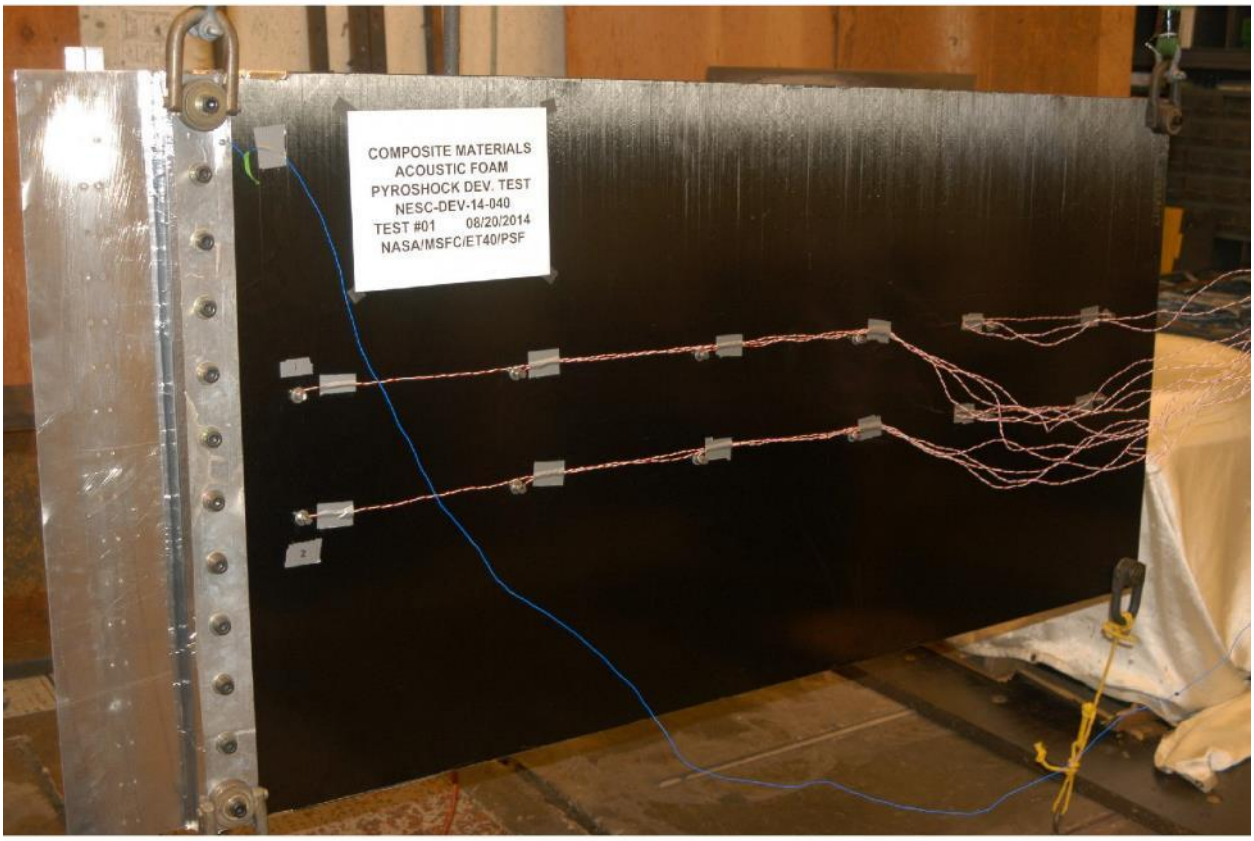

Typical Test Setup – Front of Panel
Accelerometer Locations
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Typical Test Setup – Front of Panel
Accelerometer Locations
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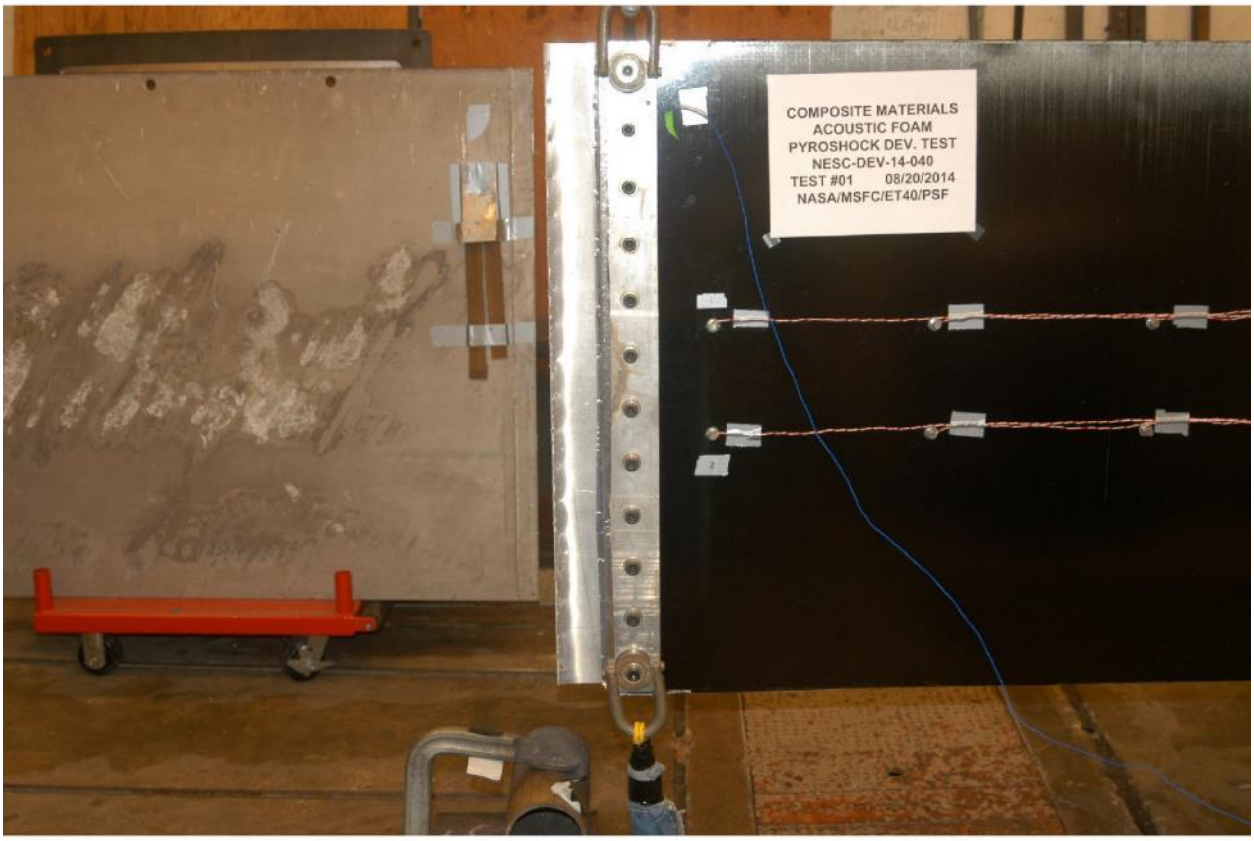

NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #1 Setup
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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #01 08/20/2014
NASA/MSFC/ET40/PSF

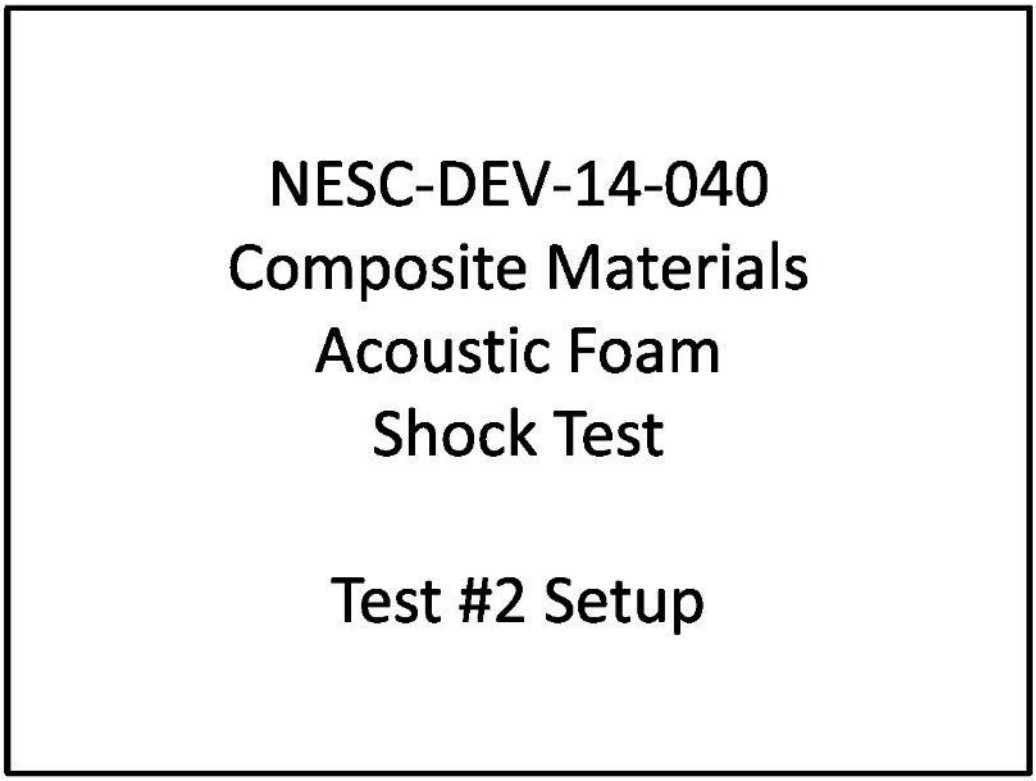
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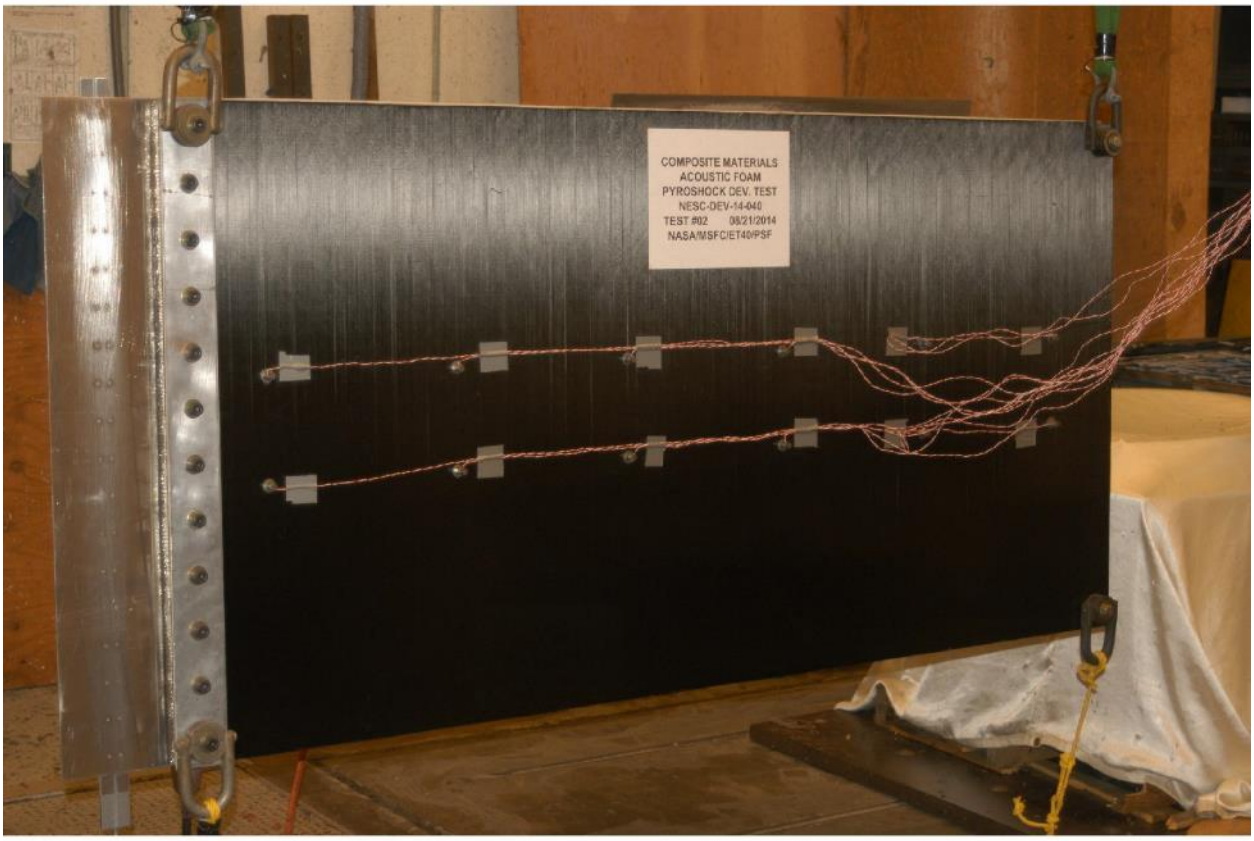

COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #01 08/20/2014
NASA/MSFC/ET40/PSF
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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #01 08/20/2014
NASA/MSFC/ET40/PSF

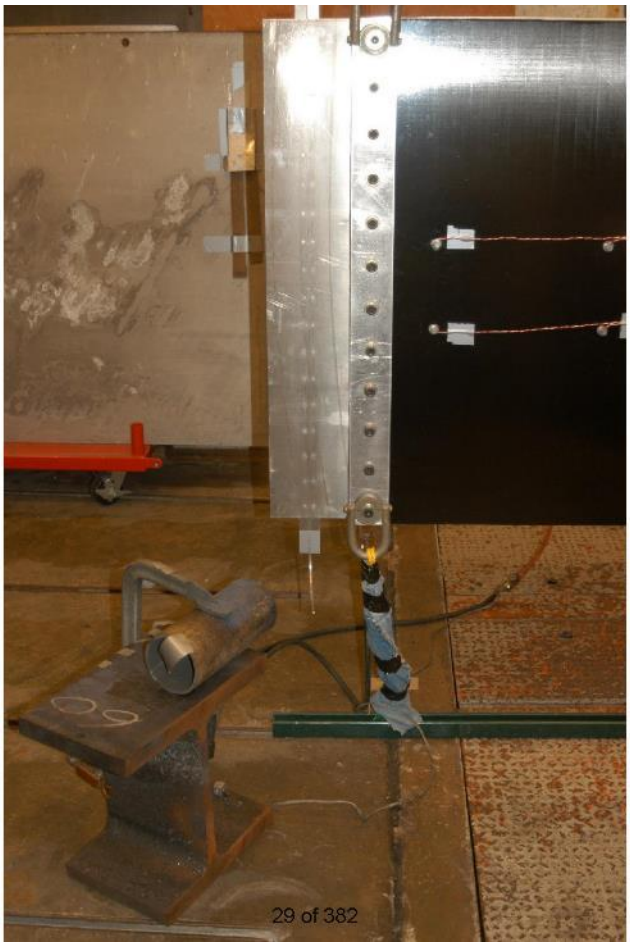
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #2 Setup

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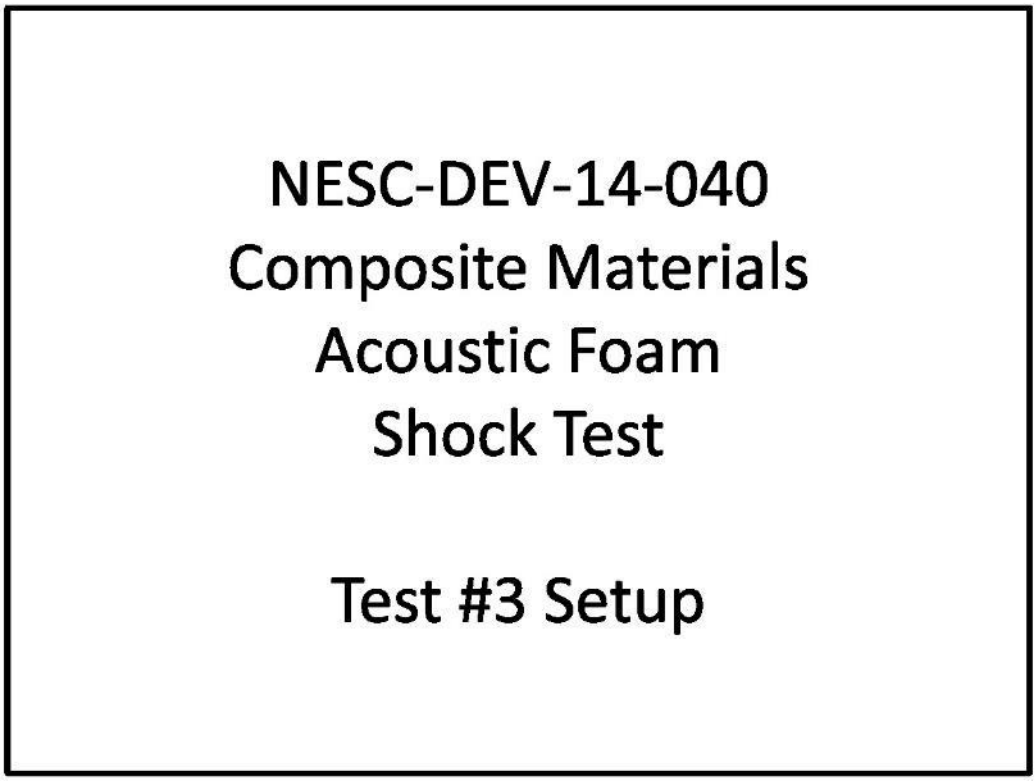

COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #02 08/21/2014
NASA/MSFC/ET40/PSF

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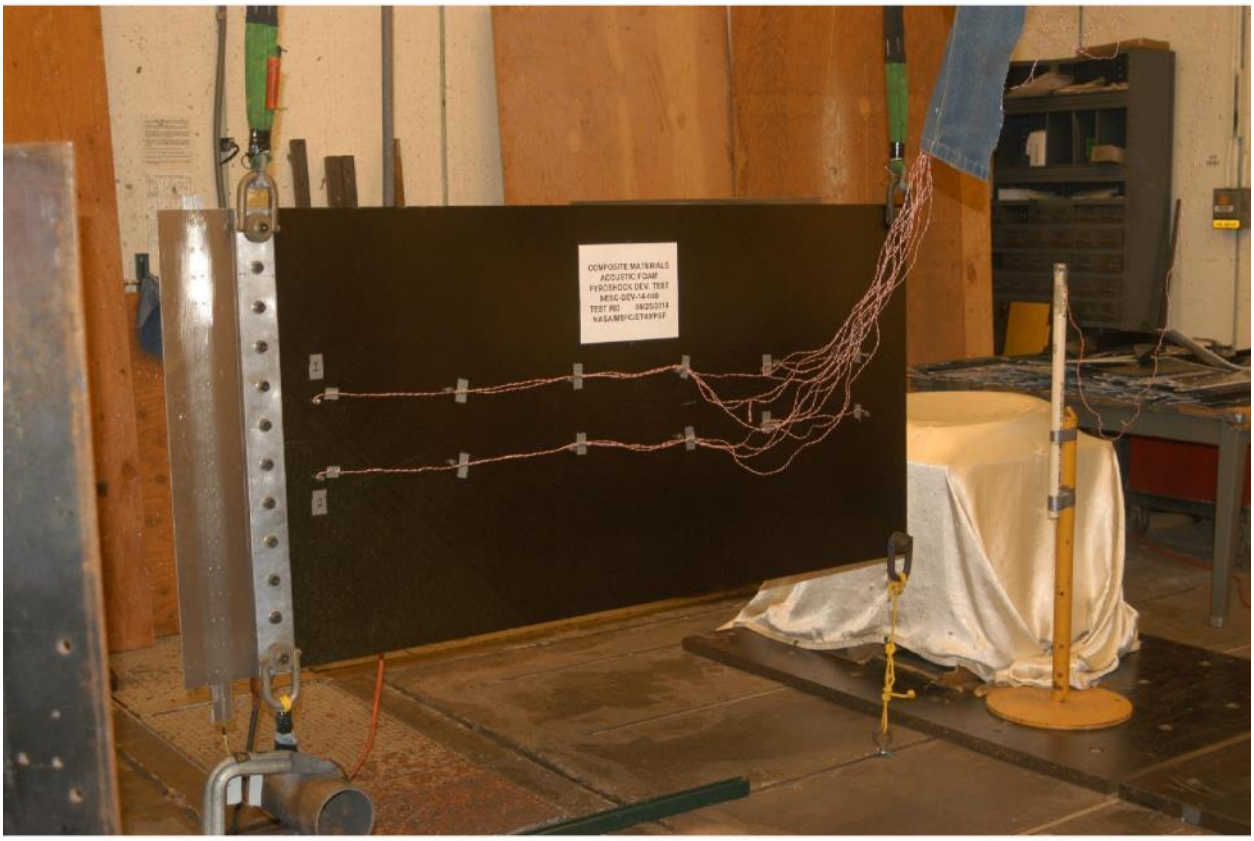

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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #3 Setup

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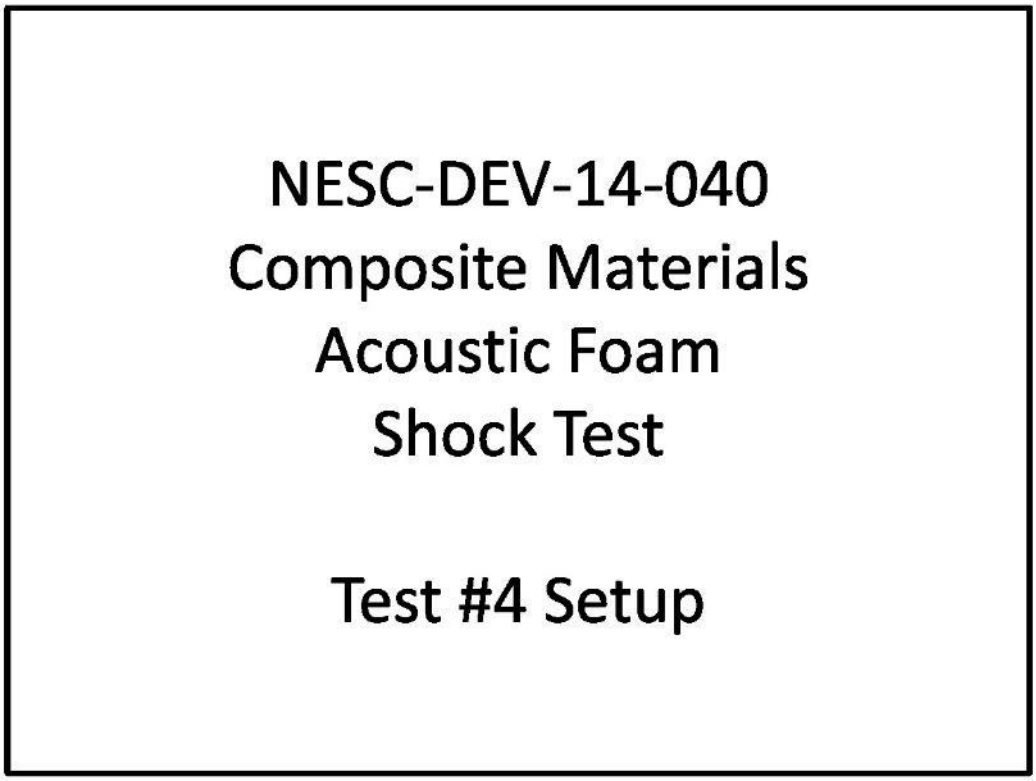

COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-010

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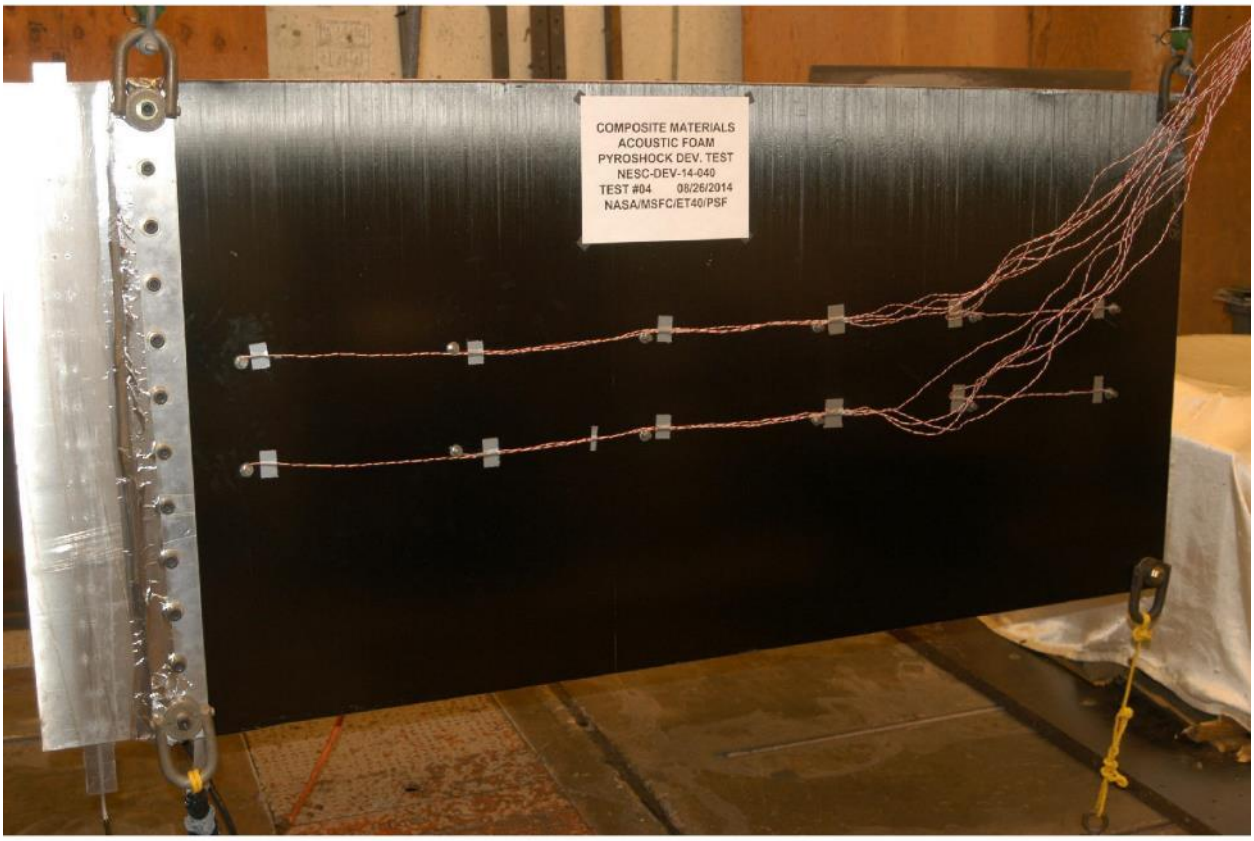

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LS
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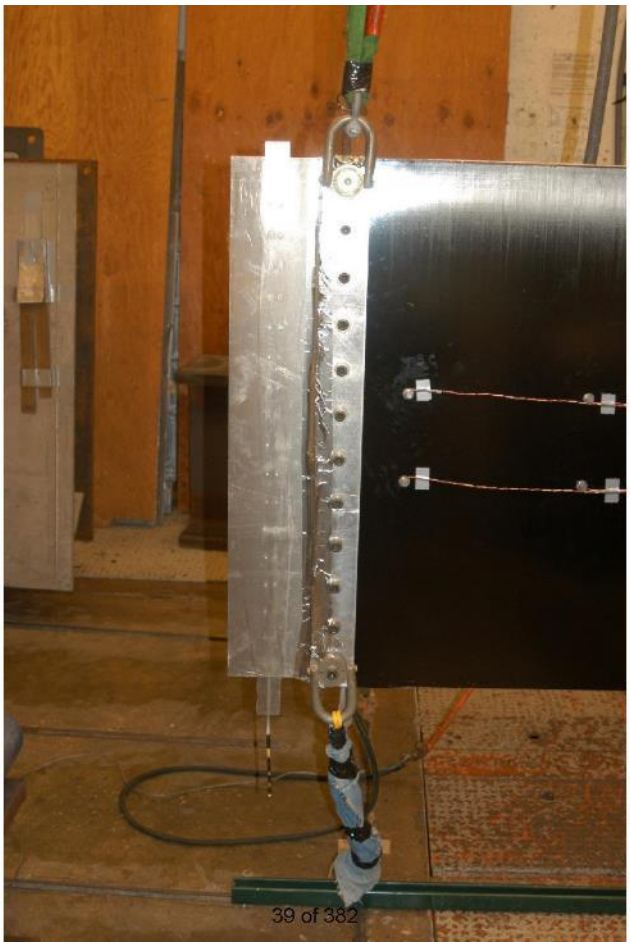

COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #03 08/25/2014
NASA/MSFC/ET40/PSF
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #4 Setup

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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #04 08/26/2014
NASA/MSFC/ET40/PSF

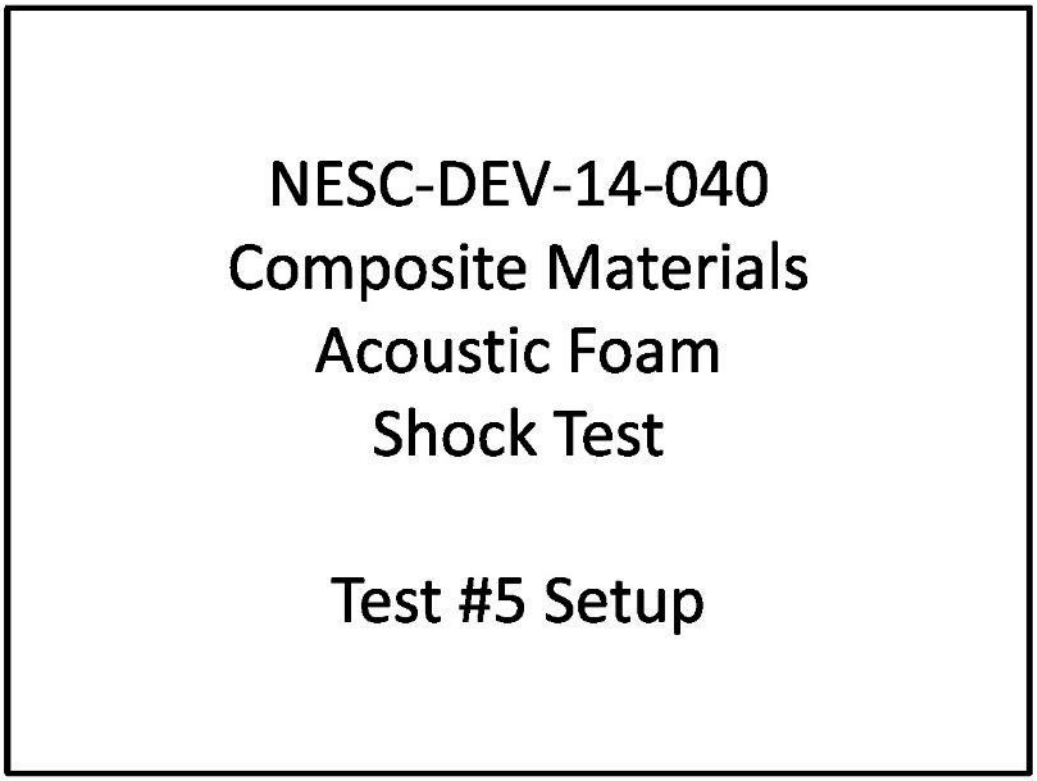
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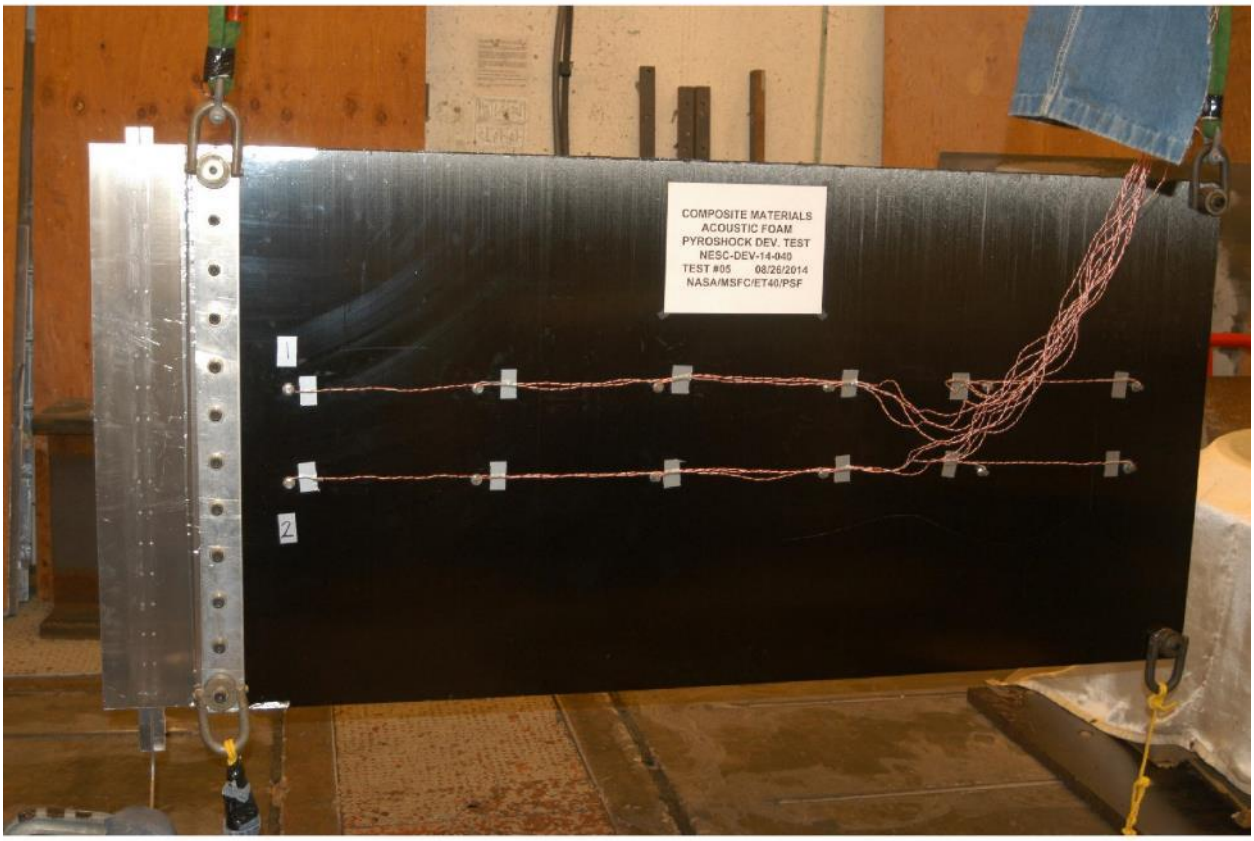

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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #5 Setup

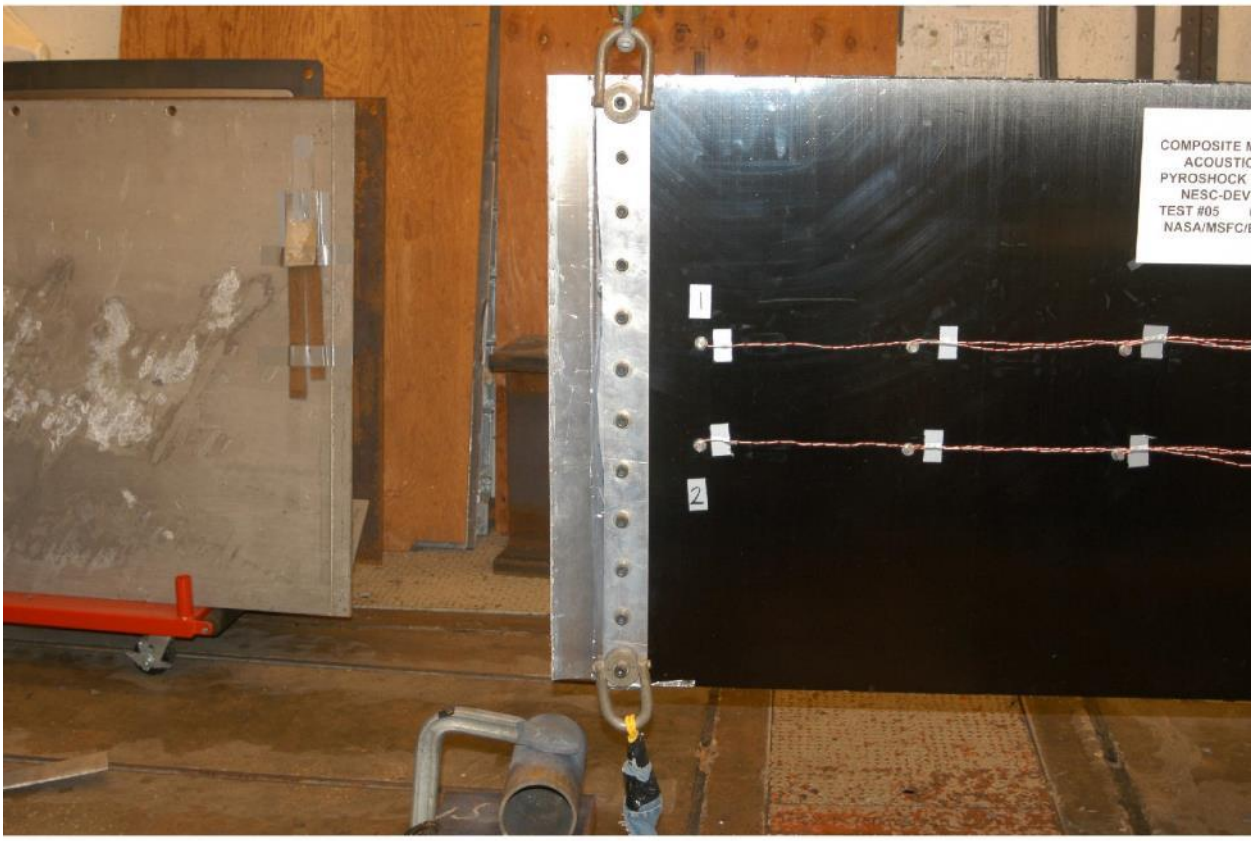
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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #05 08/26/2014
NASA/MSFC/ET40/PSF
1
2

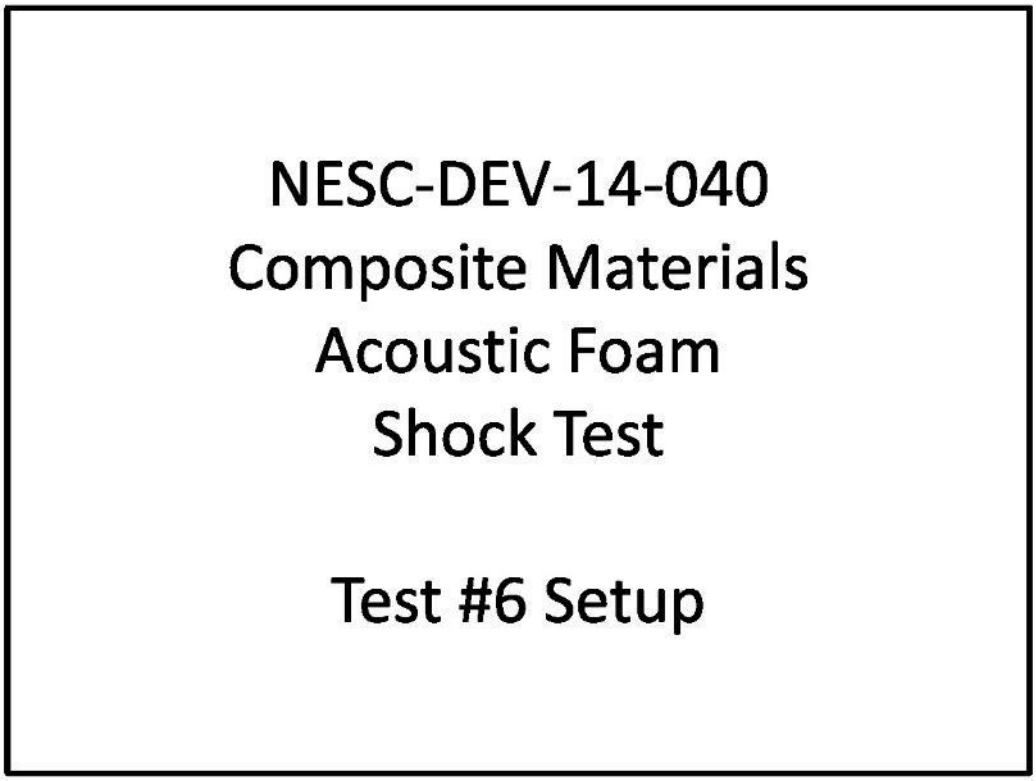
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COMPOSITE MATERIALS
ACOUSTIC FOAM
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NESC-DEV-14-040
TEST #05 08/26/2014
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #6 Setup

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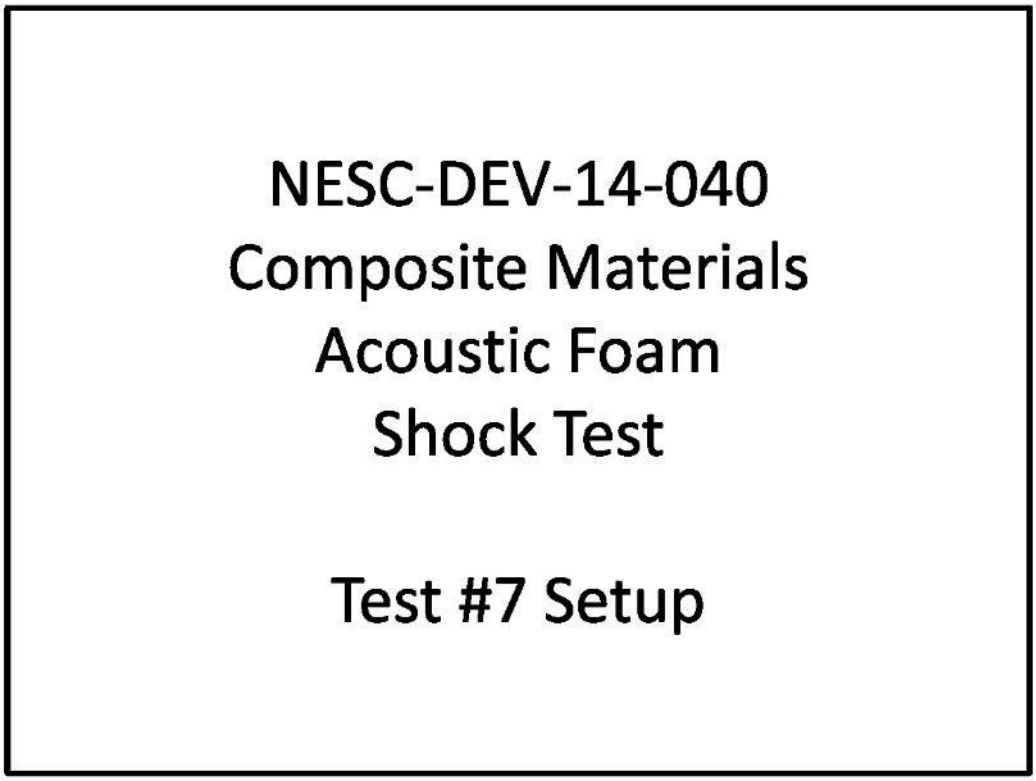


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IMPOSITE MATERIALS
ACOUSTIC FOAM
ROSHOCK DEV. TEST
NESC-DEV-14-040
ST #06 08/27/2014
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #7 Setup

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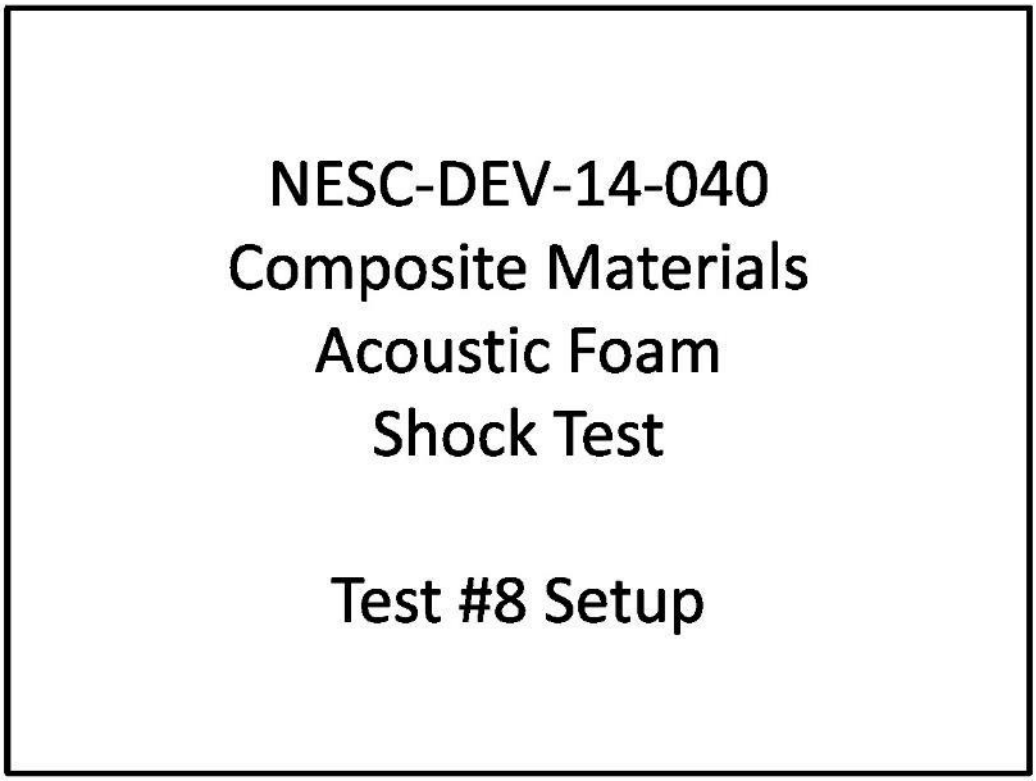


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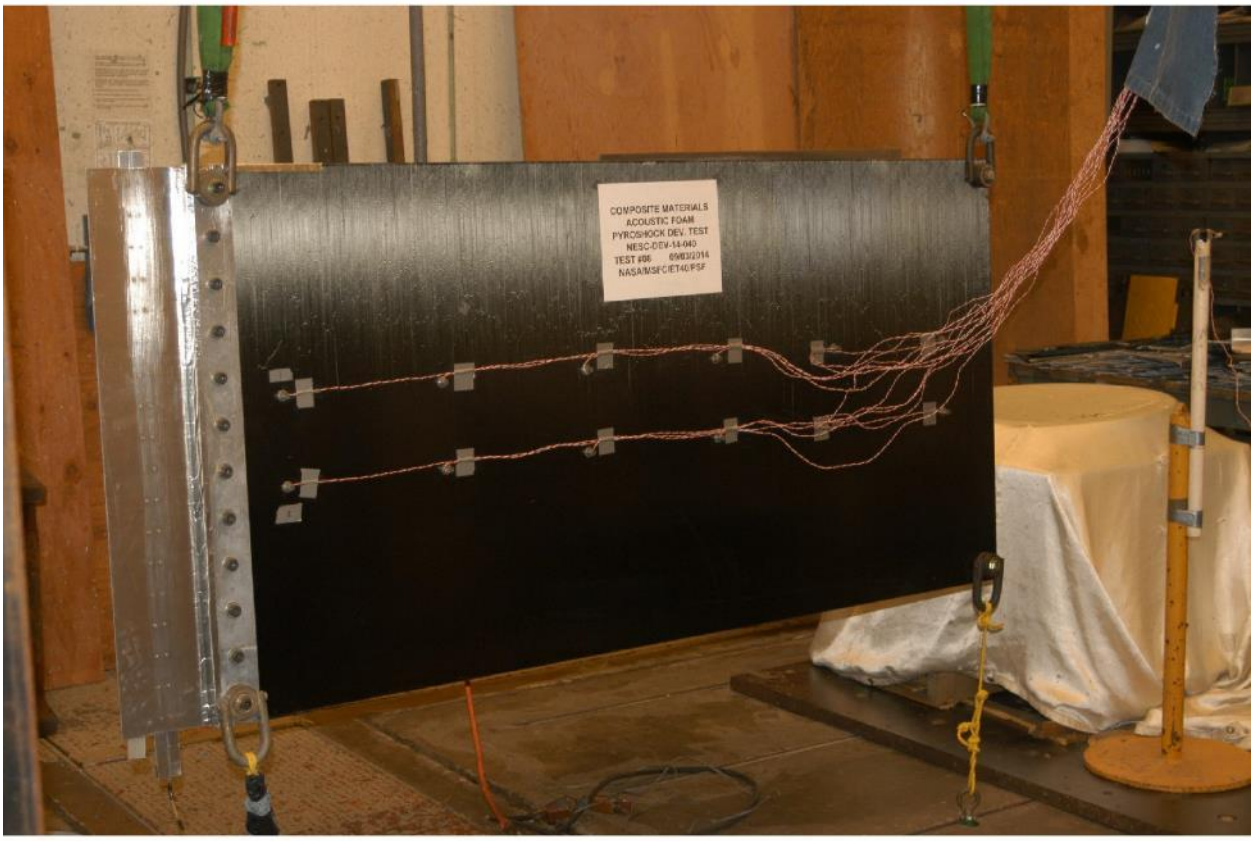

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2
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MATERIALS
TIC FOAM
K DEV. TEST
EV-14-040
09/02/2014
FC/ET40/PSF
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #8 Setup

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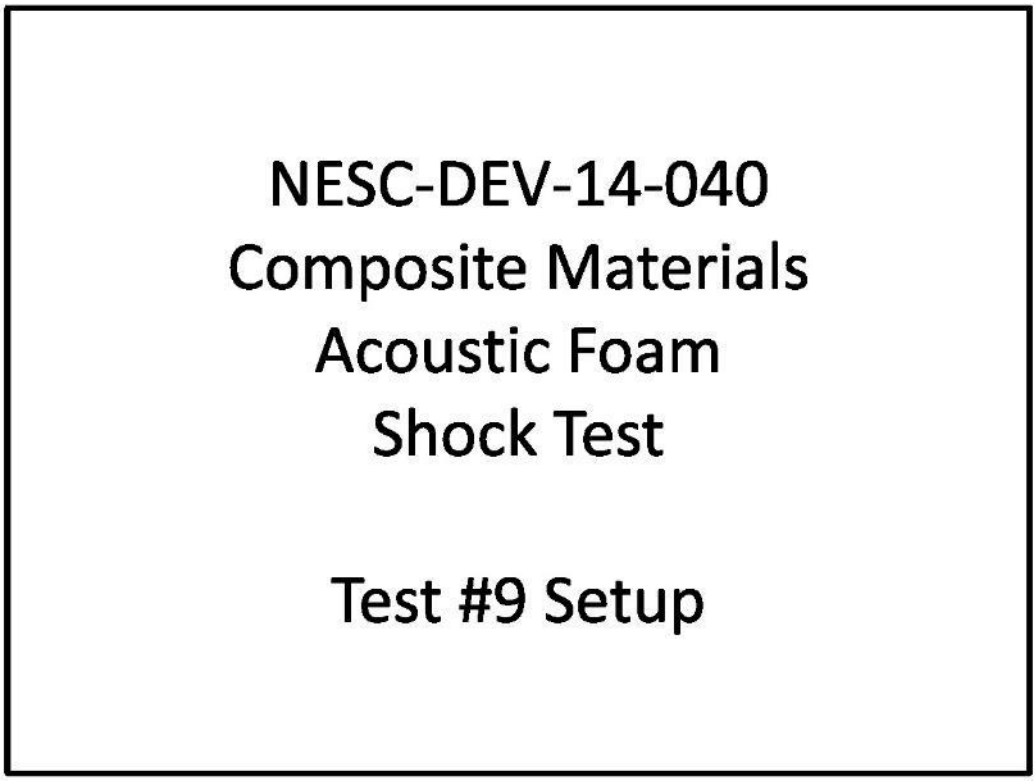

COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040

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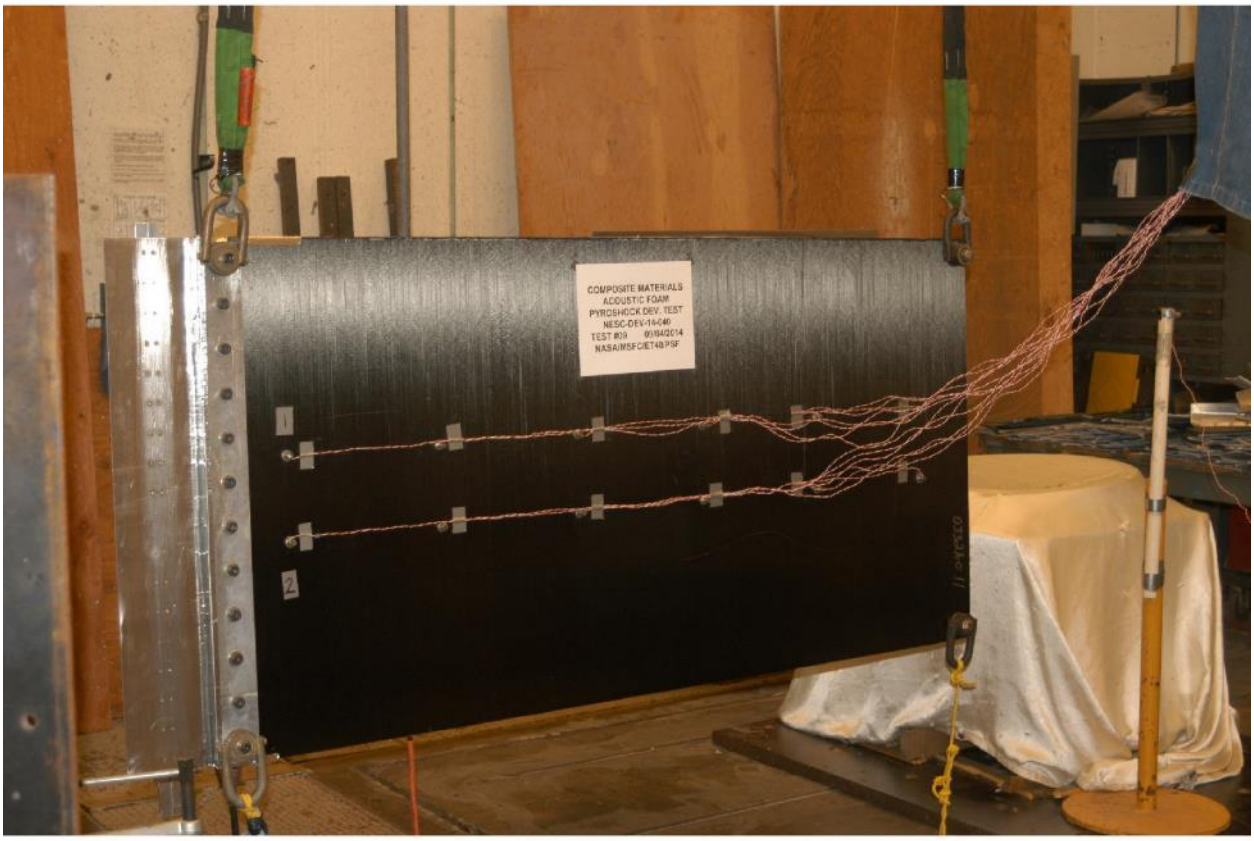

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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #38 05/03/2014
NASA/MSFC/ET40/PSF
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #9 Setup

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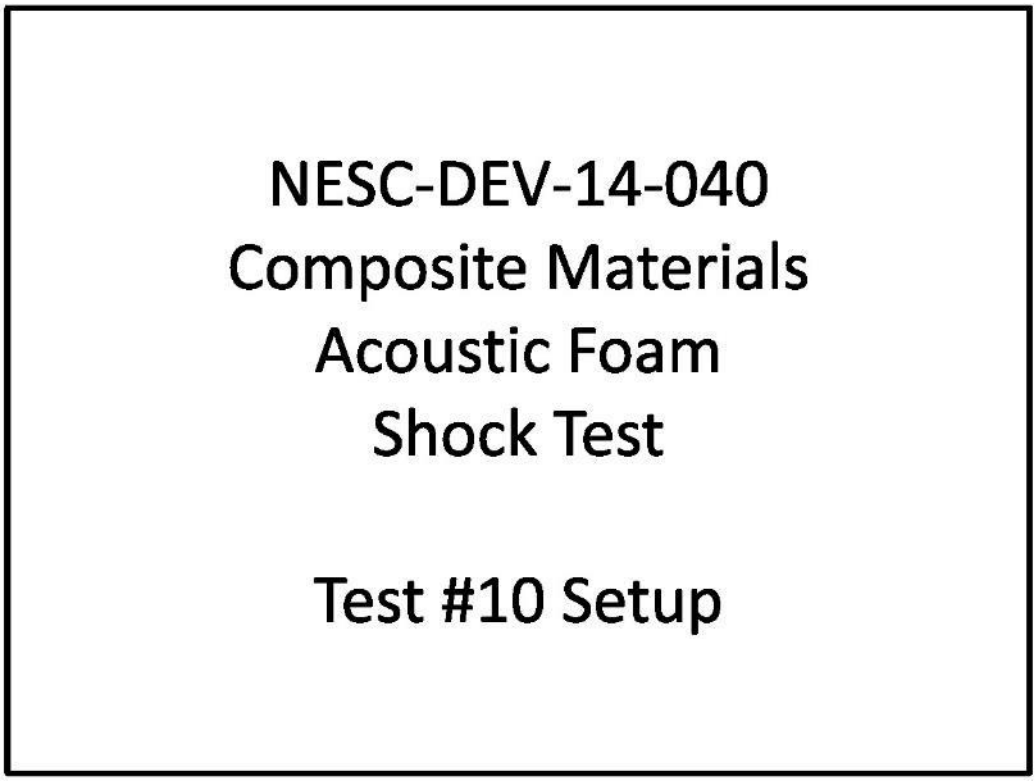

COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #09 09/04/2014
NASA/MSFC/ET40/PSF

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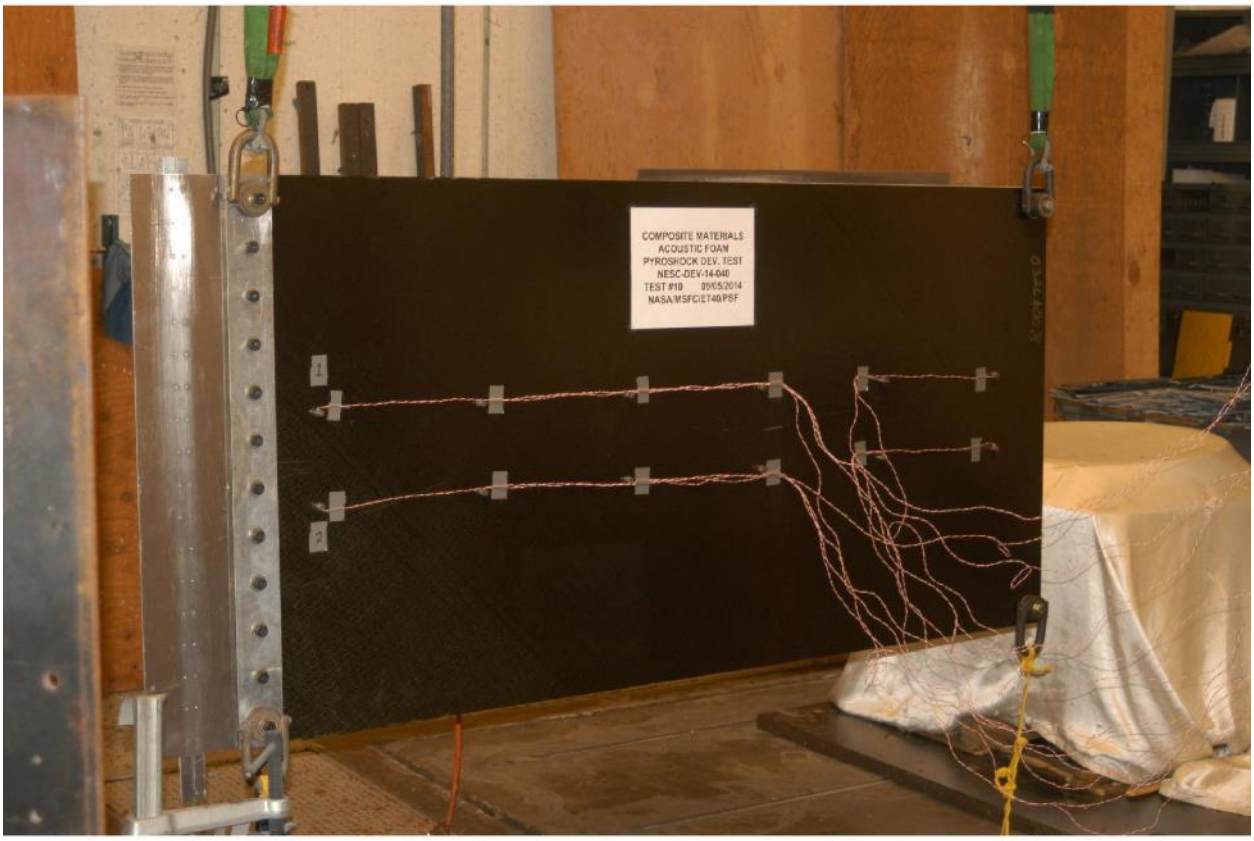

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2
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TERIALS
FOAM
EV. TEST
14-040
9/04/2014
T40/PSF
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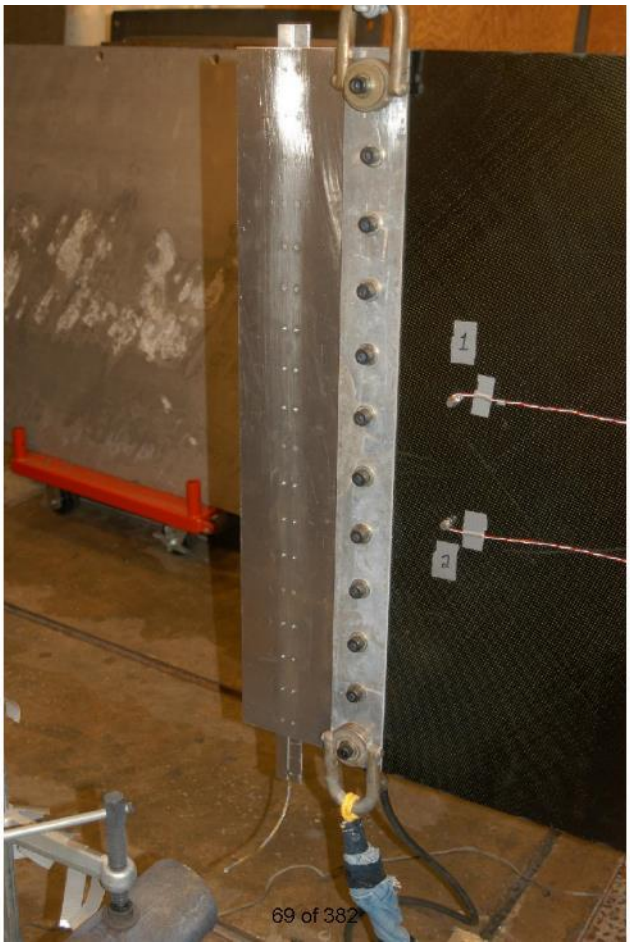

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2
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #10 Setup

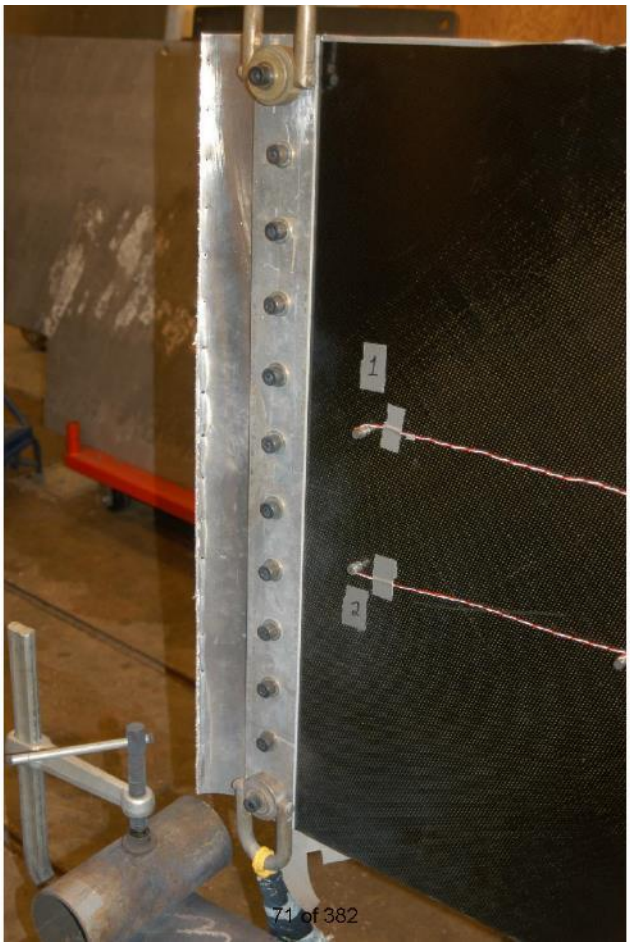
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COMPOSITE MATERIALS
ACOUSTIC FOAM
PYROSHOCK DEV. TEST
NESC-DEV-14-040
TEST #10 09/05/2014
NASA/MSFC/ET40/PSF

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1
2
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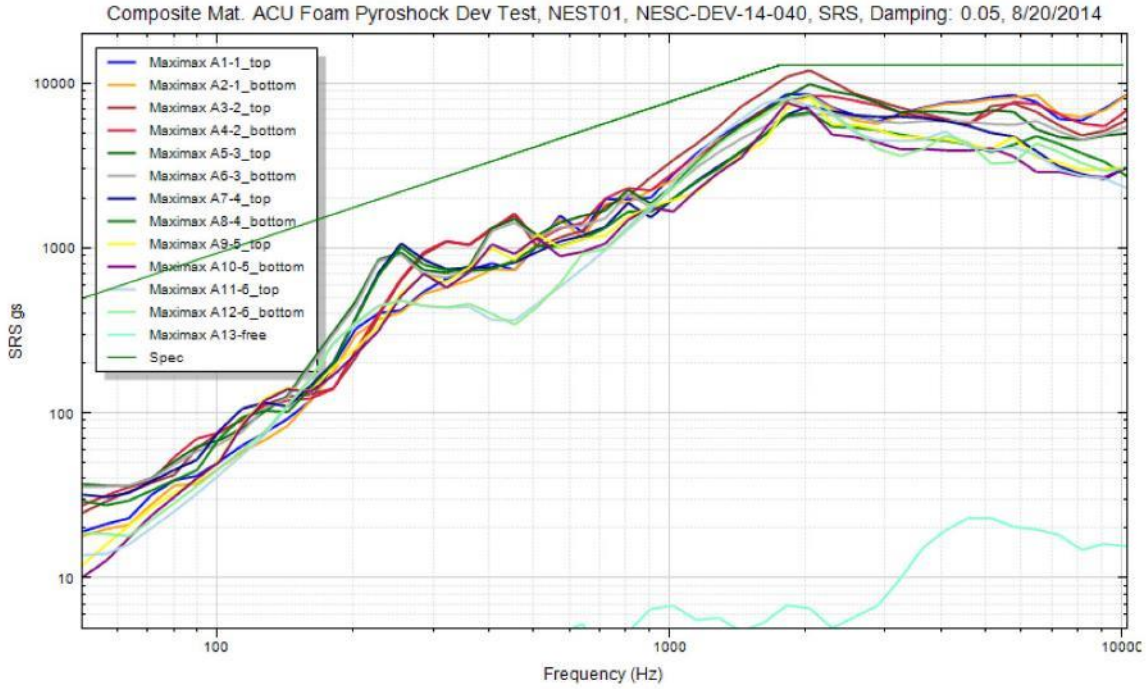

IALS
M
TEST
0
2014
PSF
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1
2
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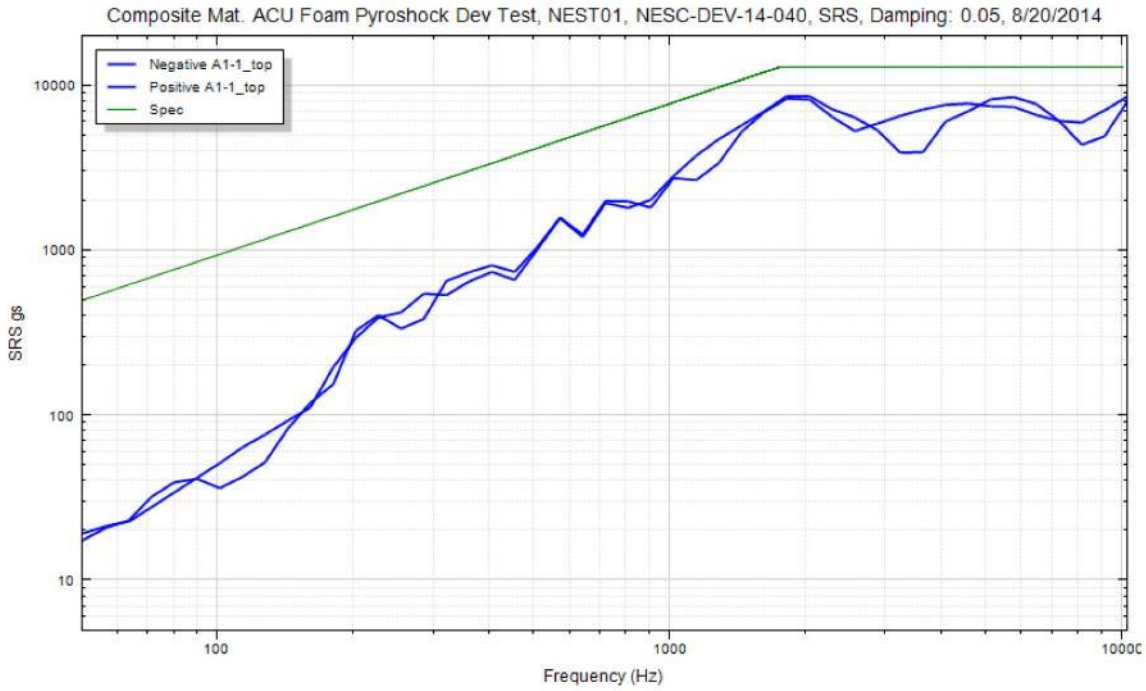
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #1 Accelerometer Data
Panel 0332A017

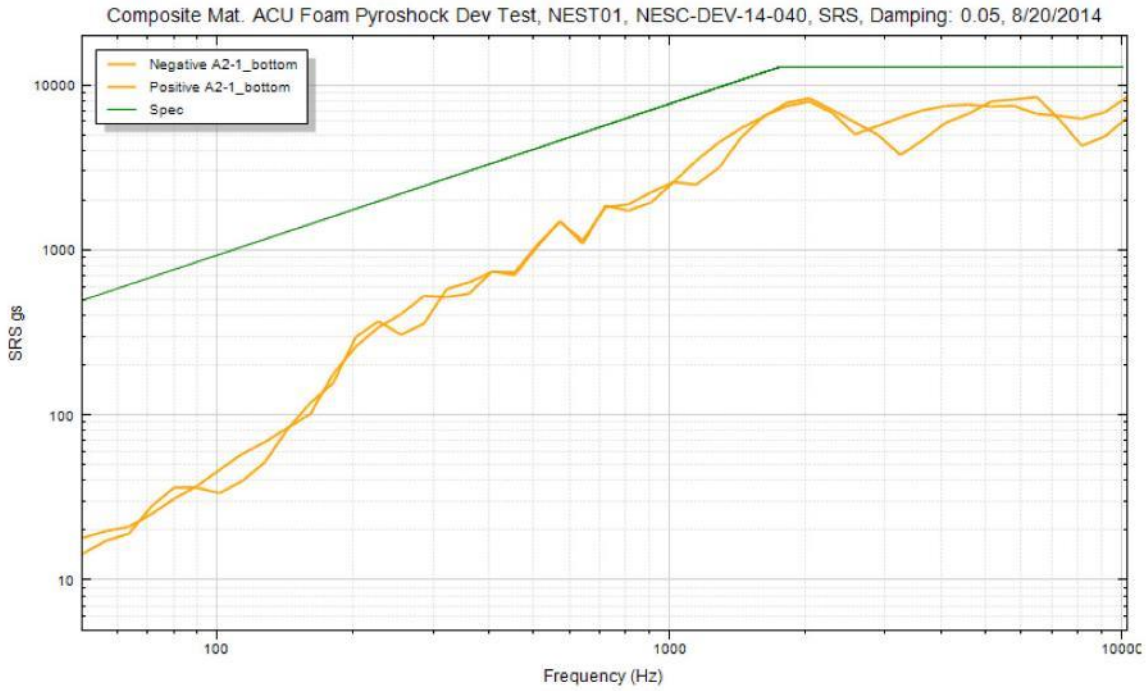
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

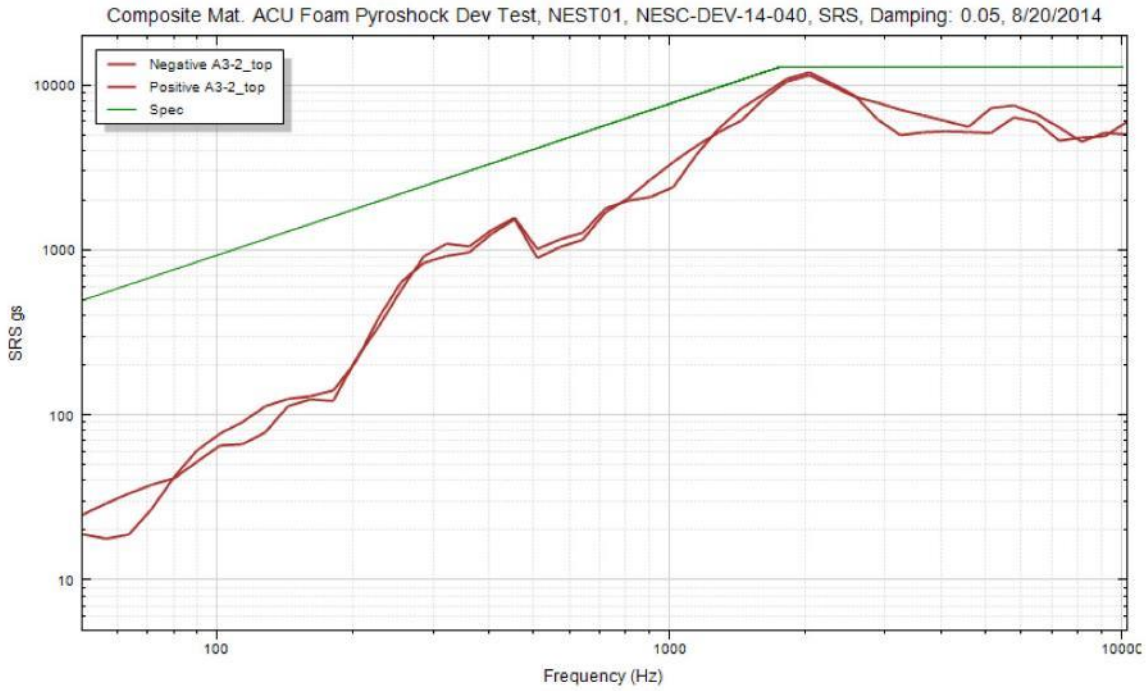
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

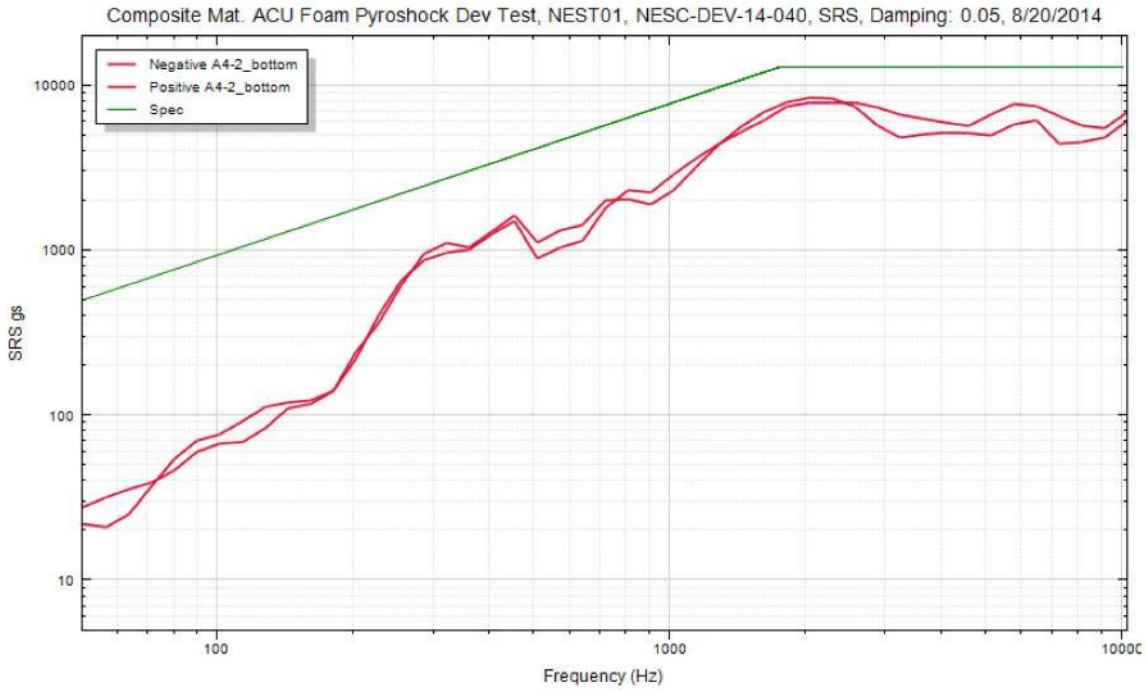
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

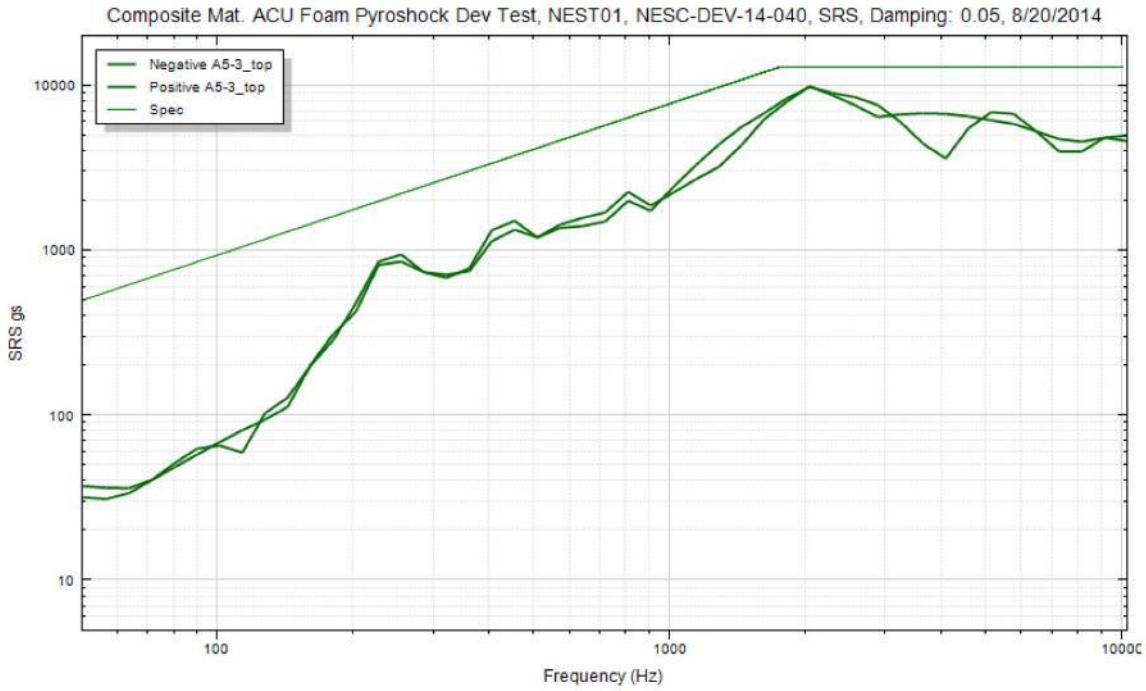
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

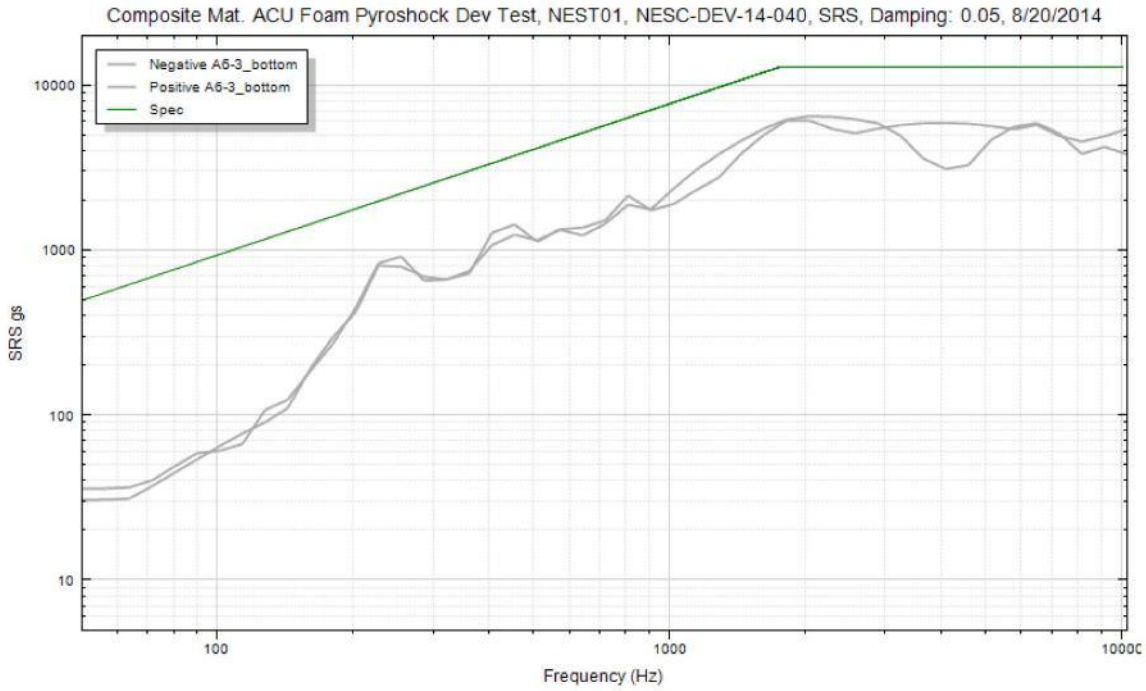
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

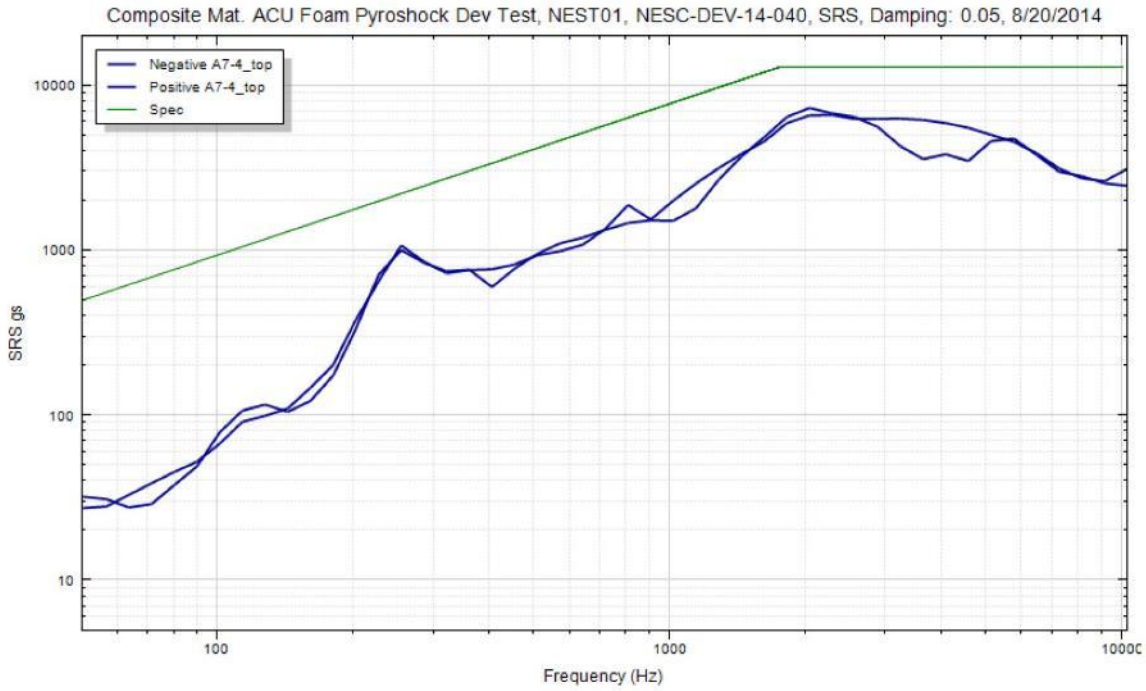
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

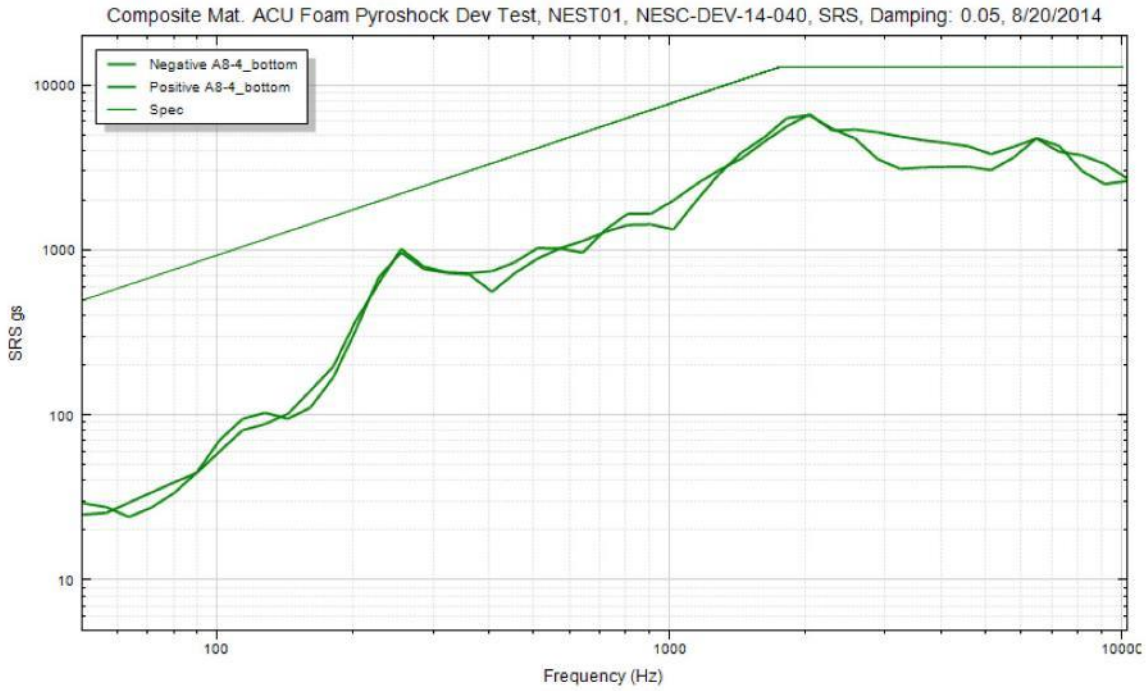
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

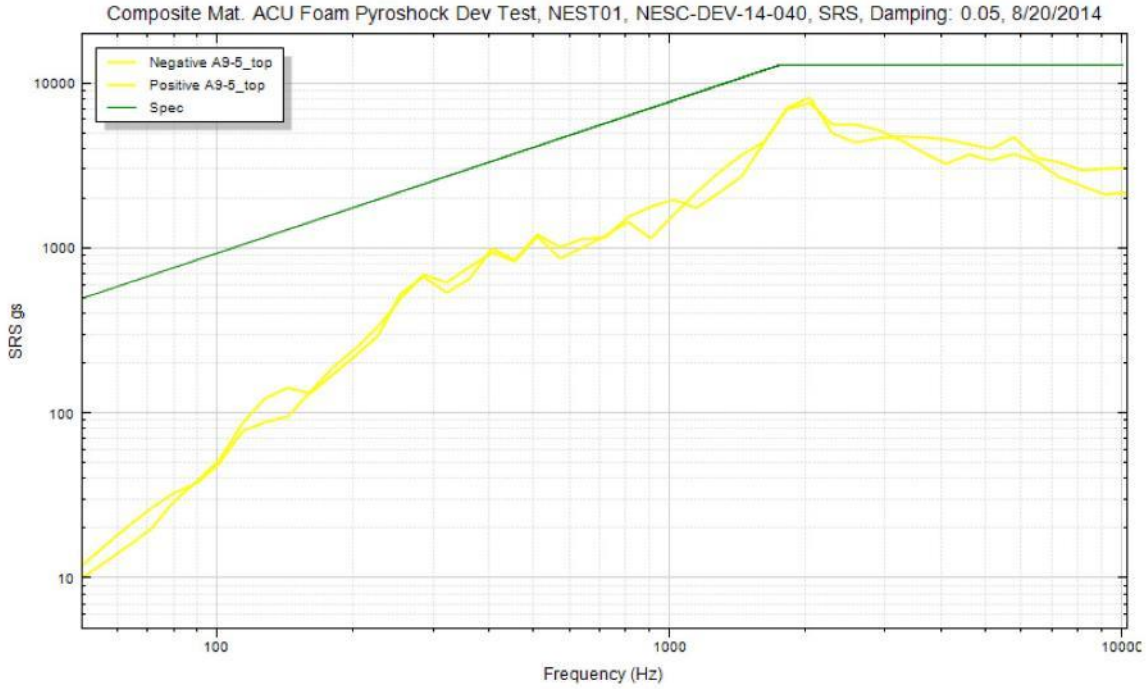
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

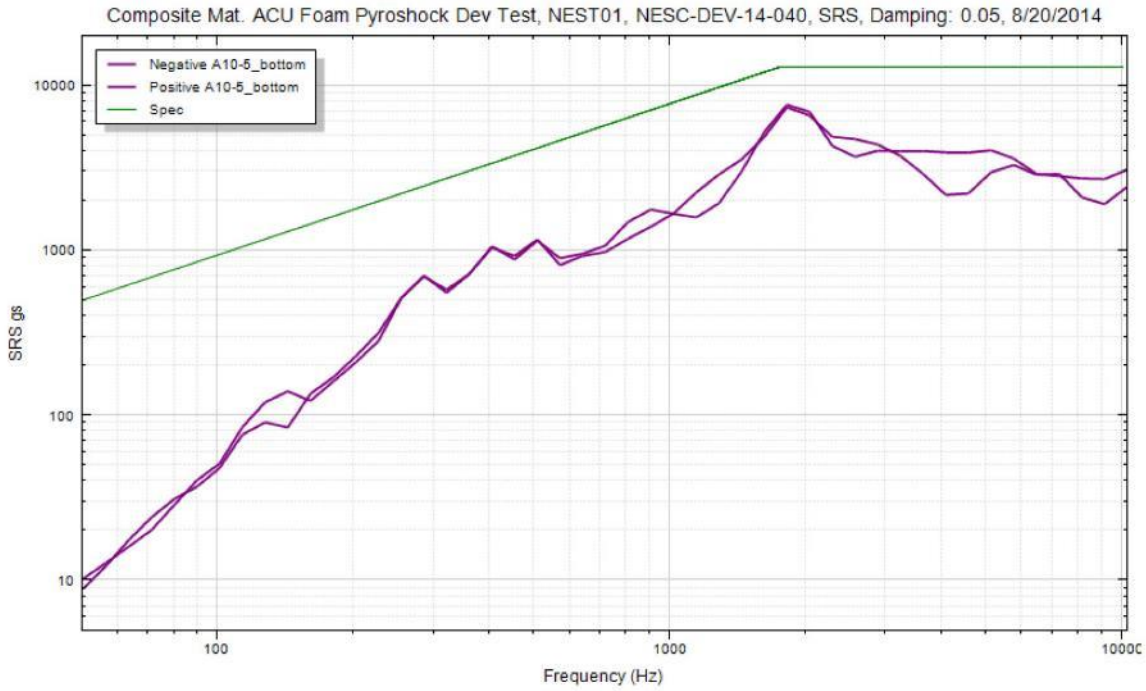
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

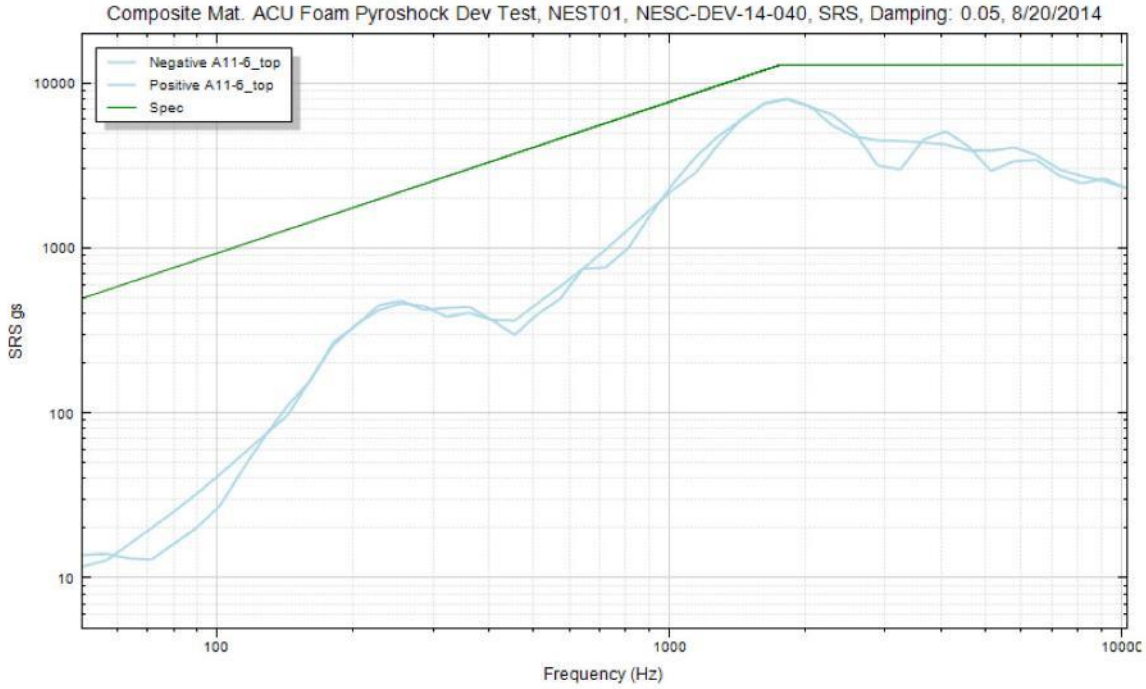
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

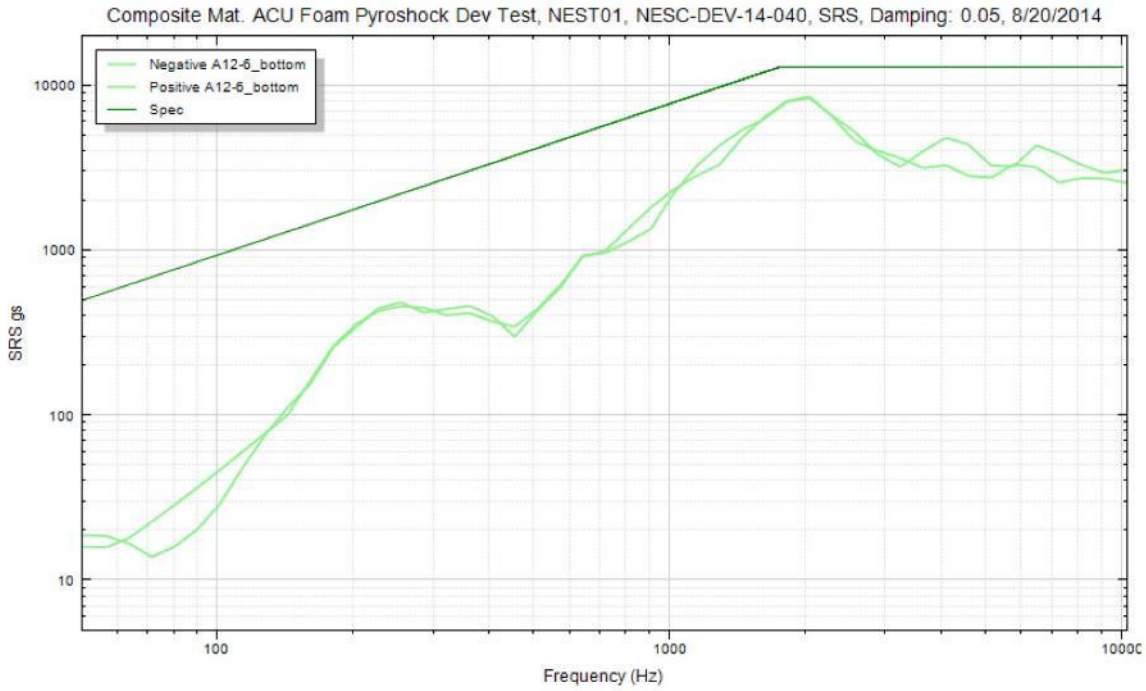
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

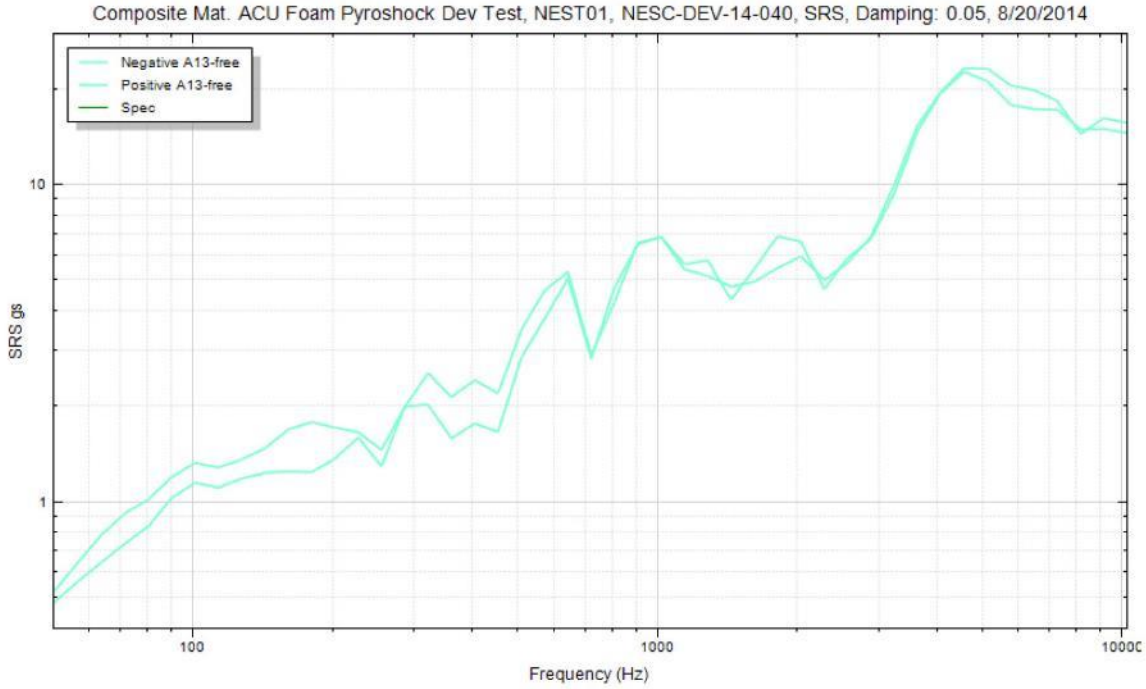
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

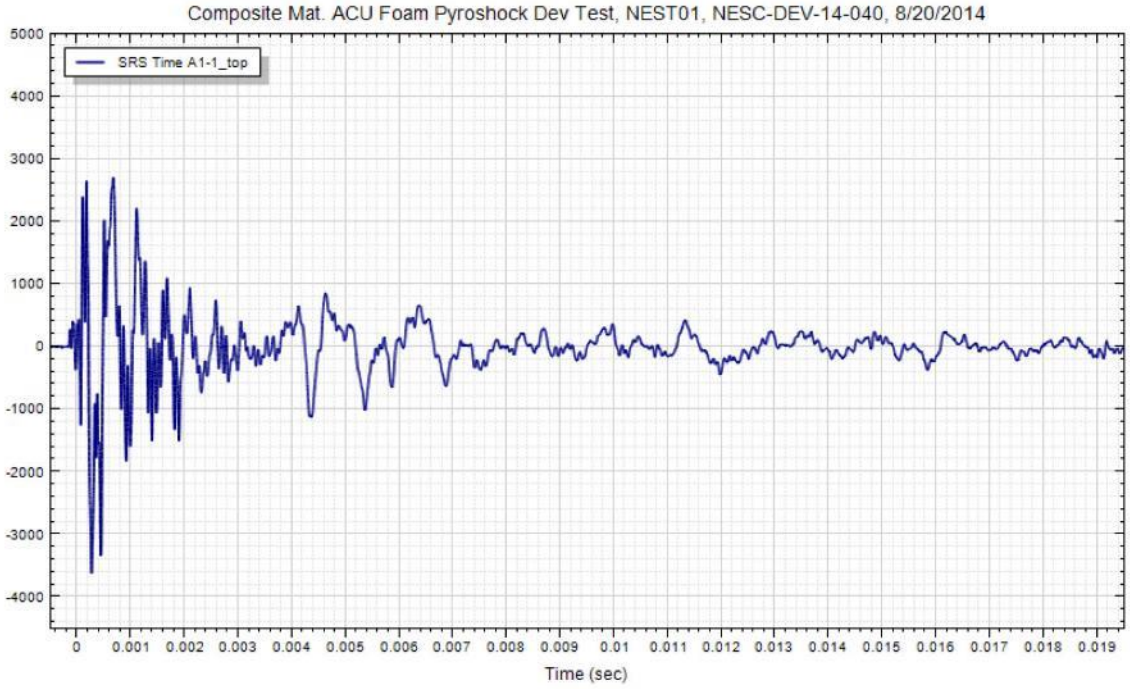
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

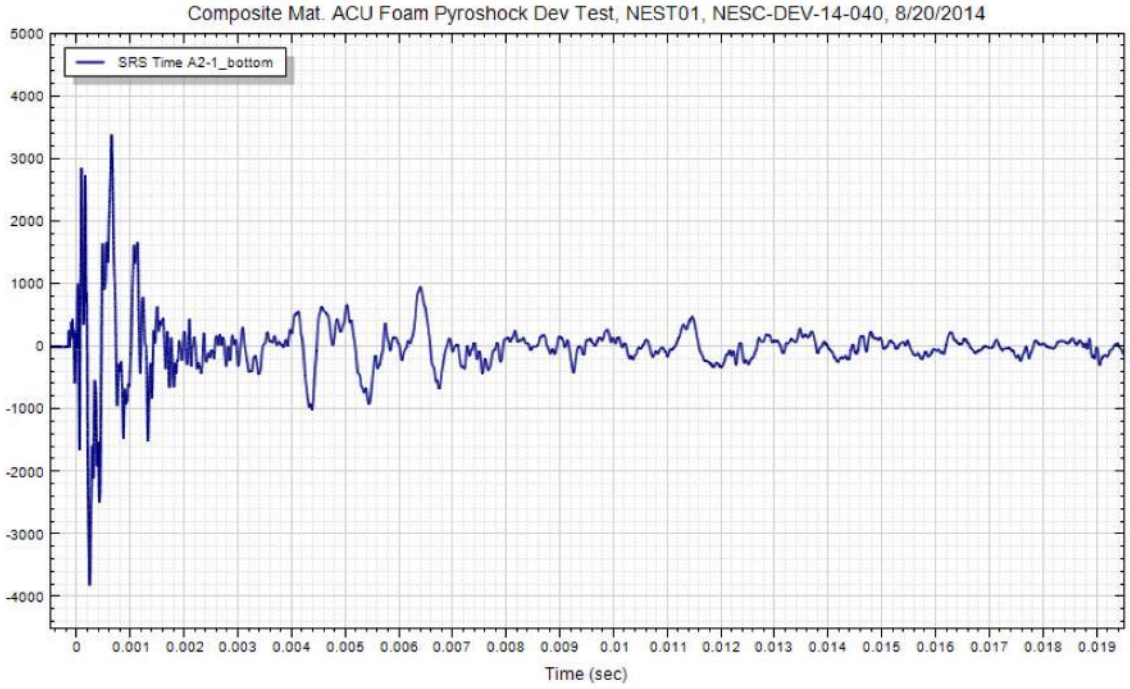
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, SRS, Damping: 0.05, 8/20/2014
Negative A13-free
Positive A13-free
Spec
SRS gs
10
1
100
1000
Frequency (Hz)

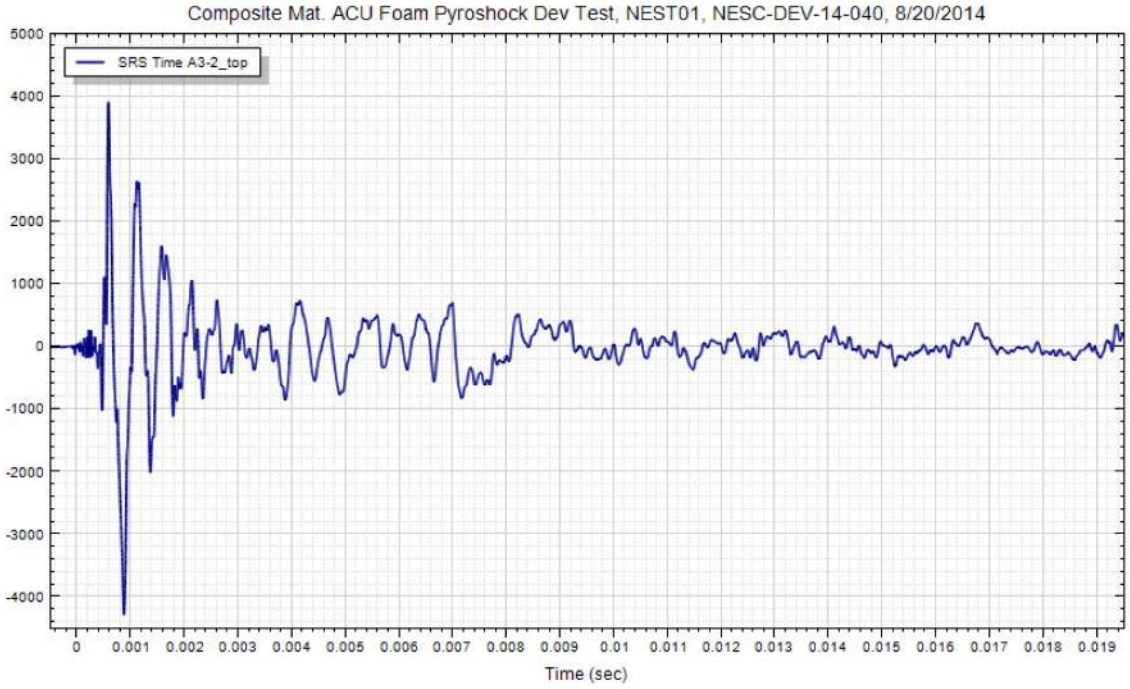
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A1-1_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

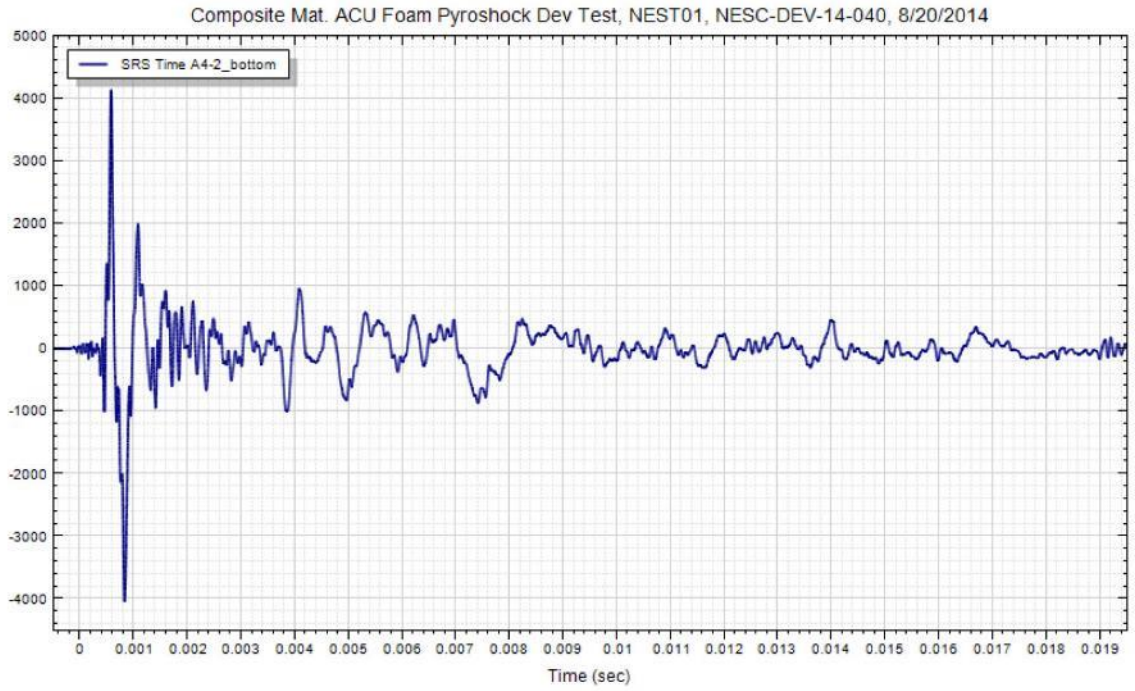
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A2-1_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

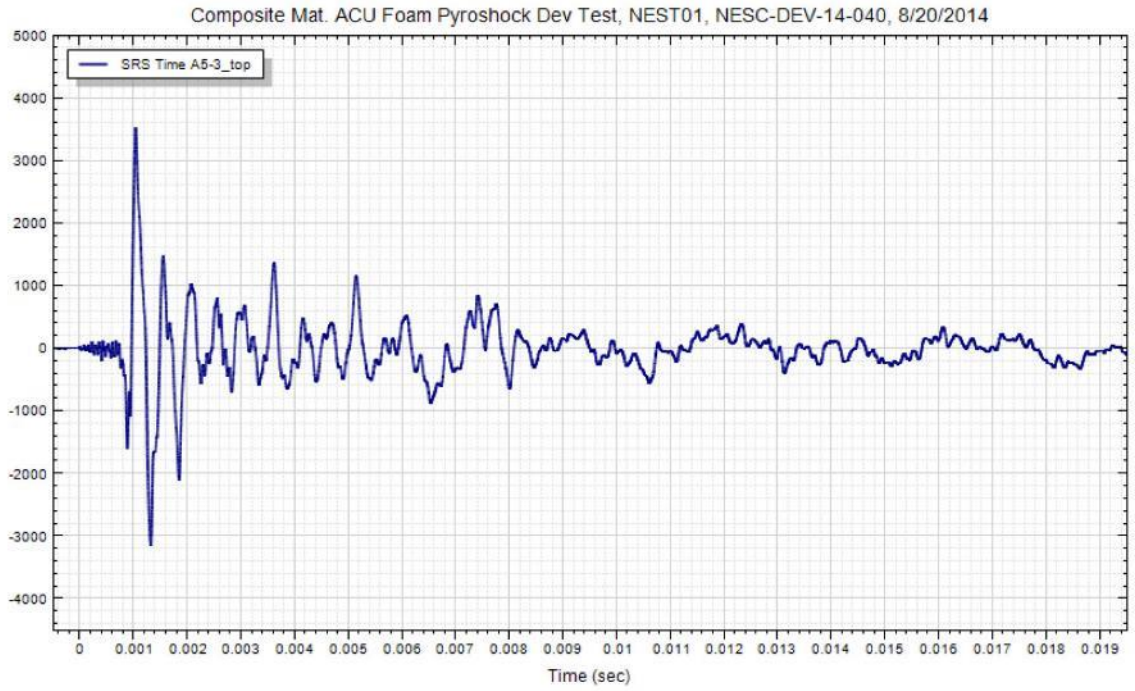
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A3-2_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

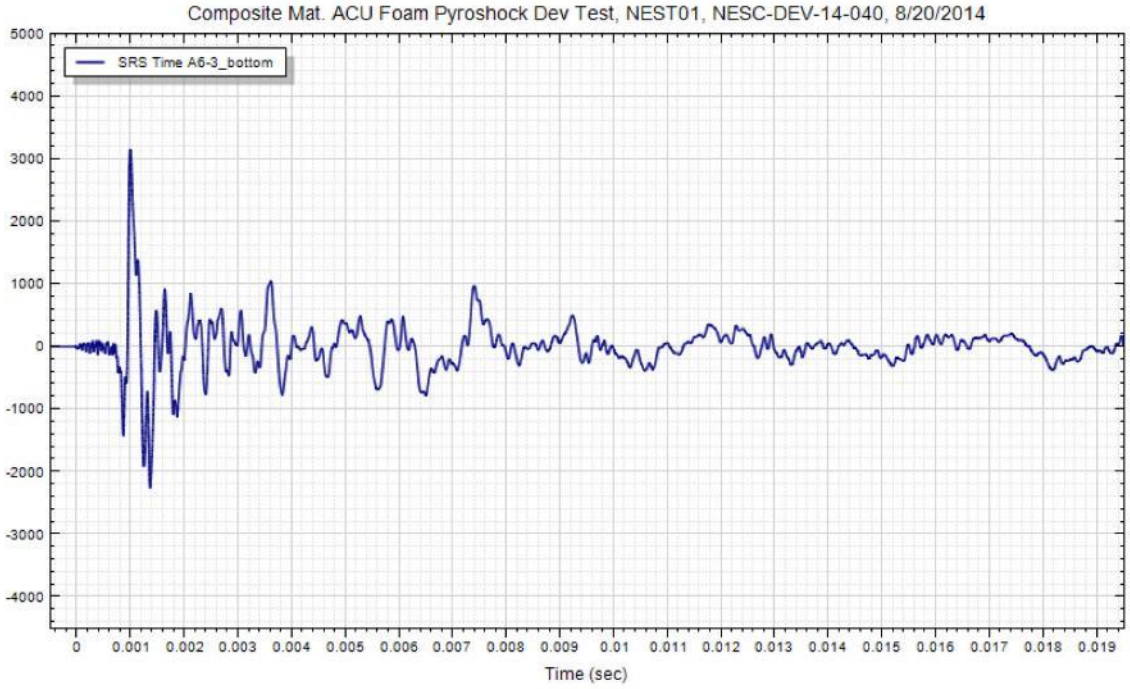
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A4-2_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

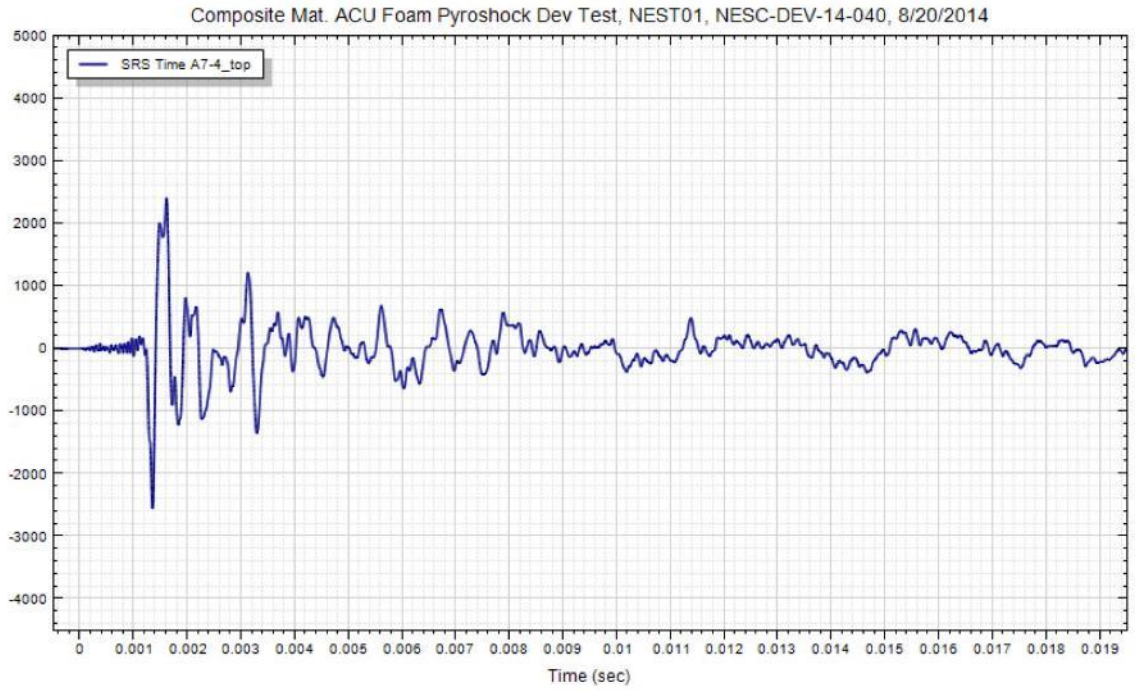
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A5-3_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

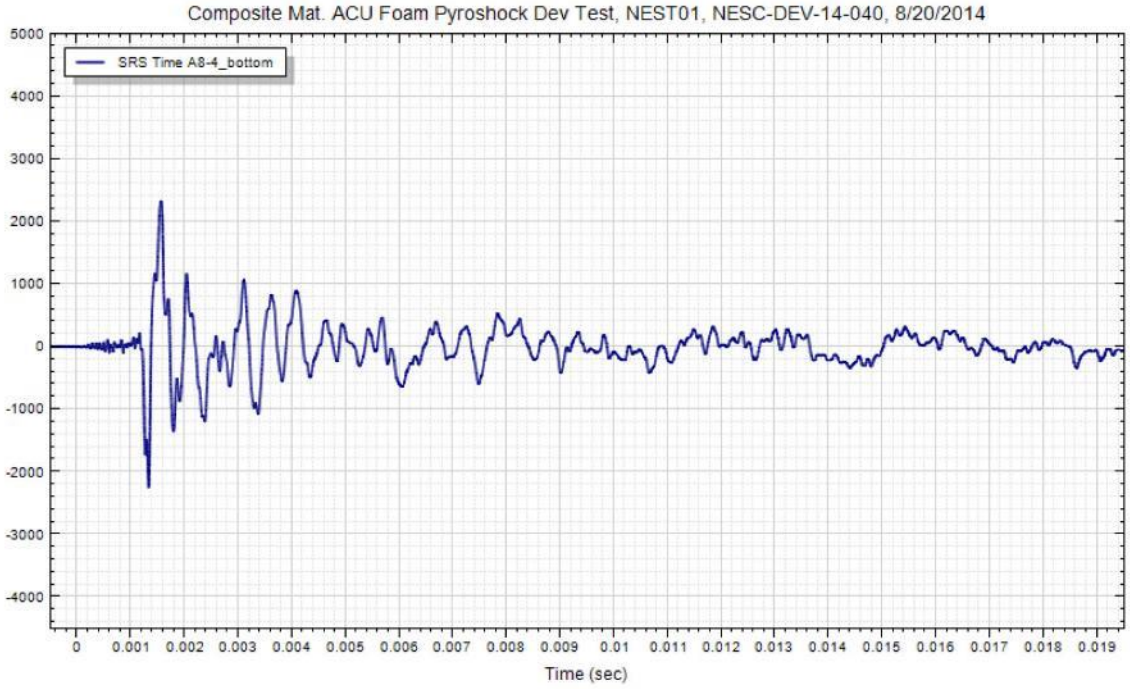
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A6-3_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

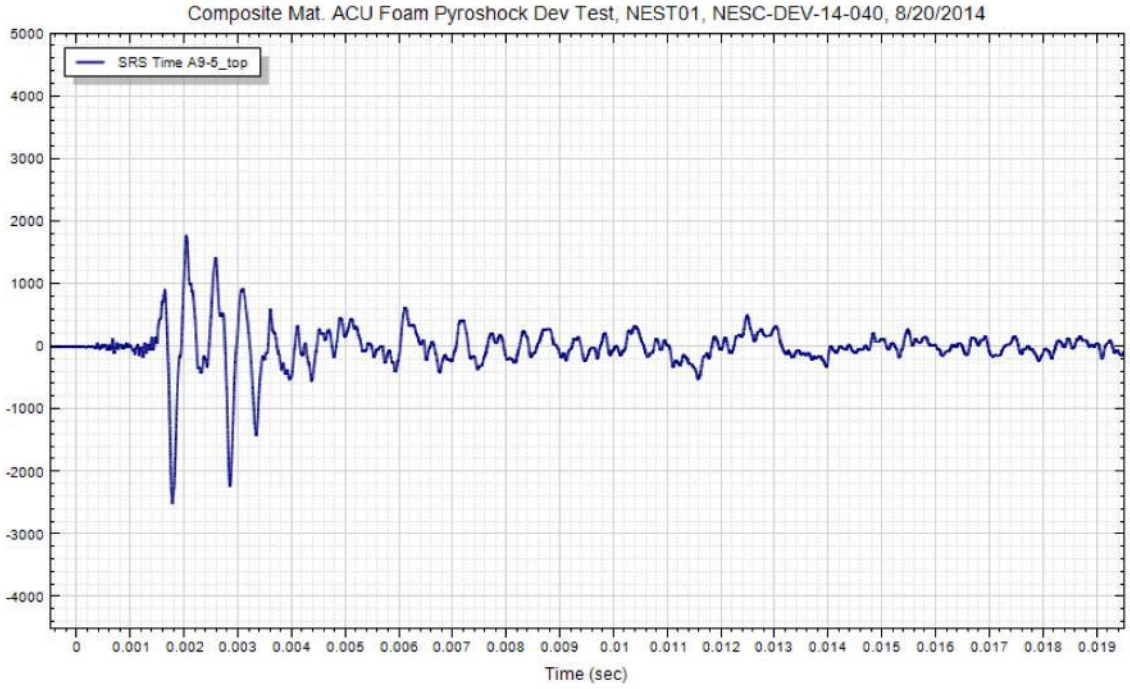
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A7-4_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

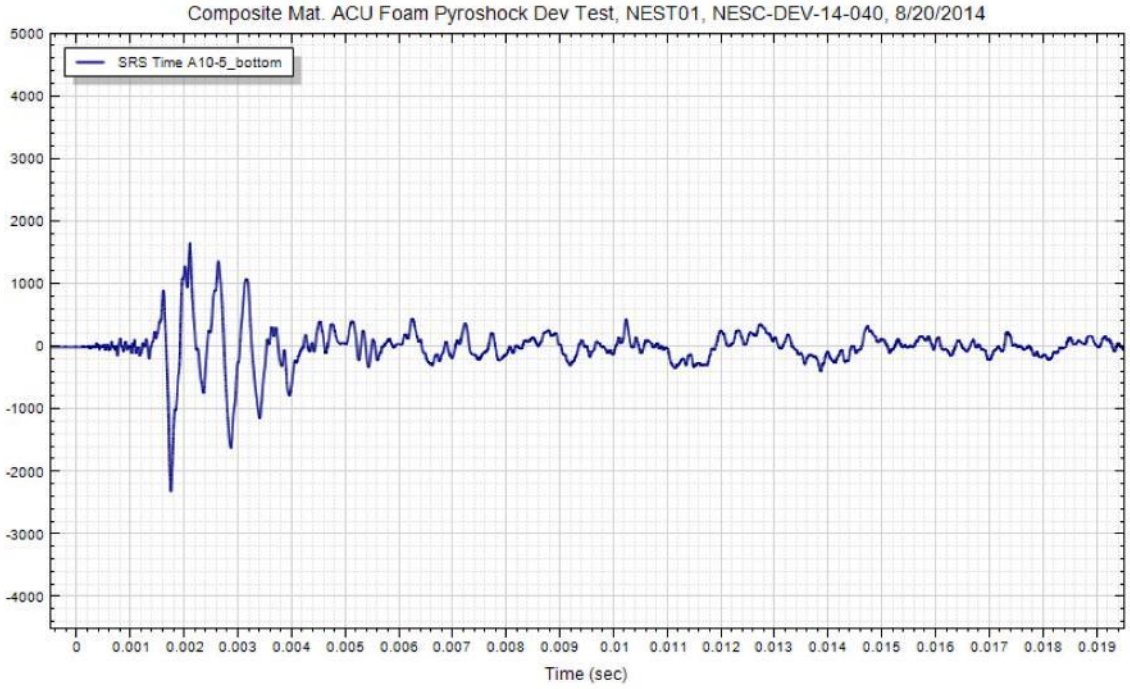
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A8-4_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

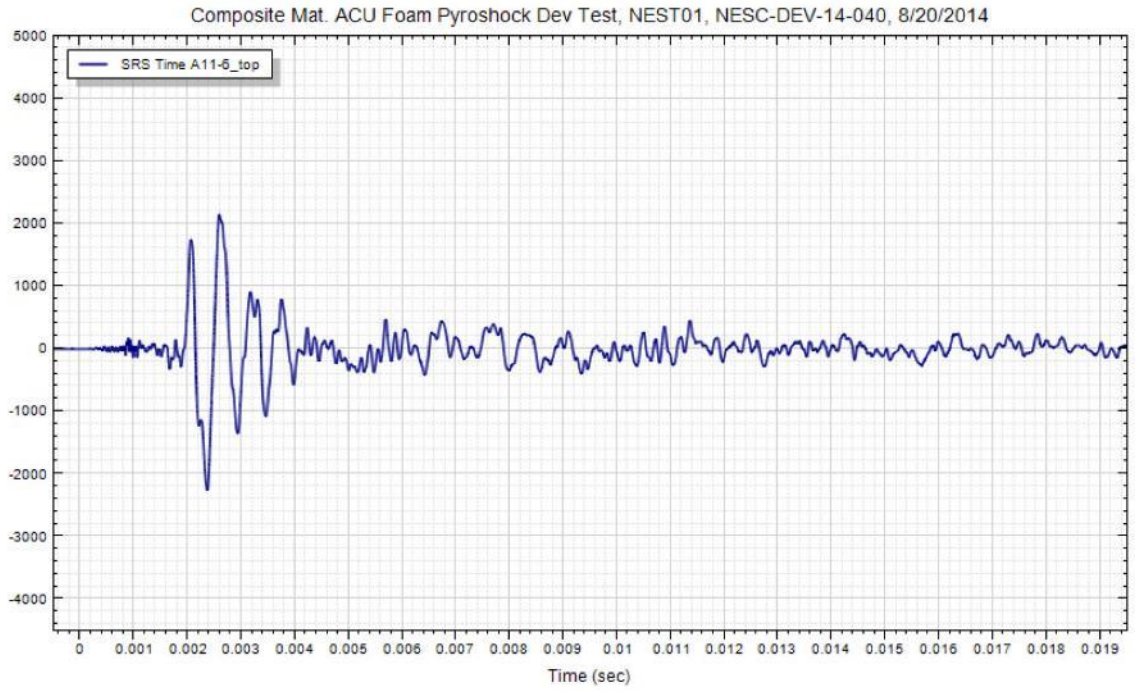
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A9-5_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

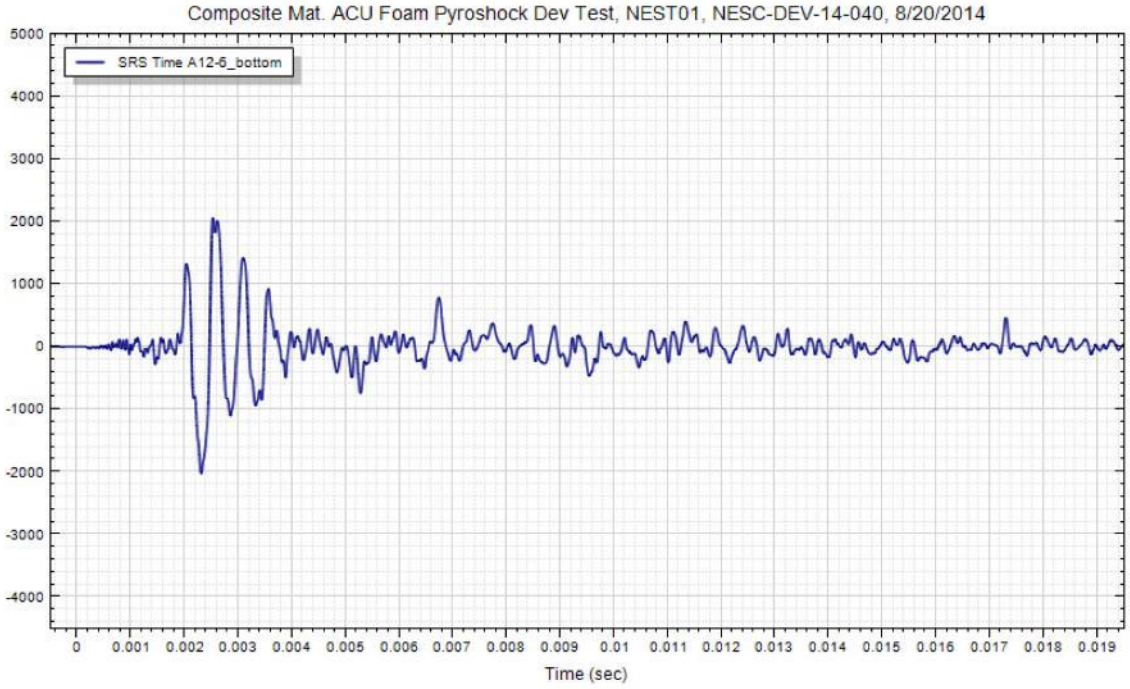
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A10-5_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

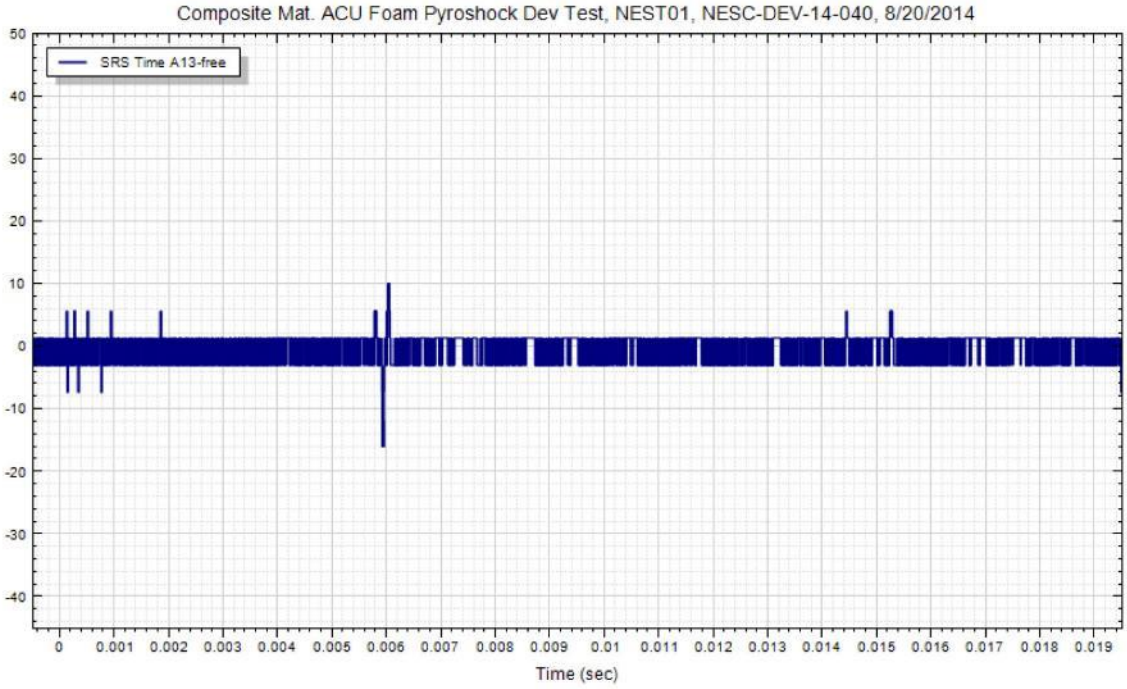
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A11-6_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

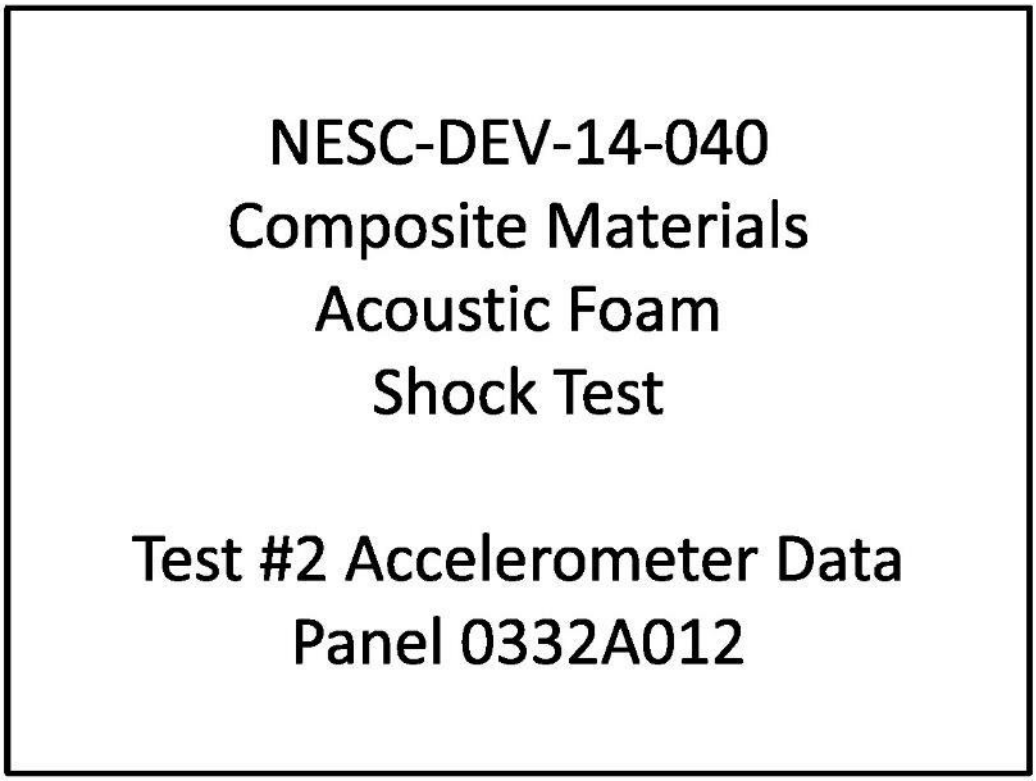
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A12-6_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

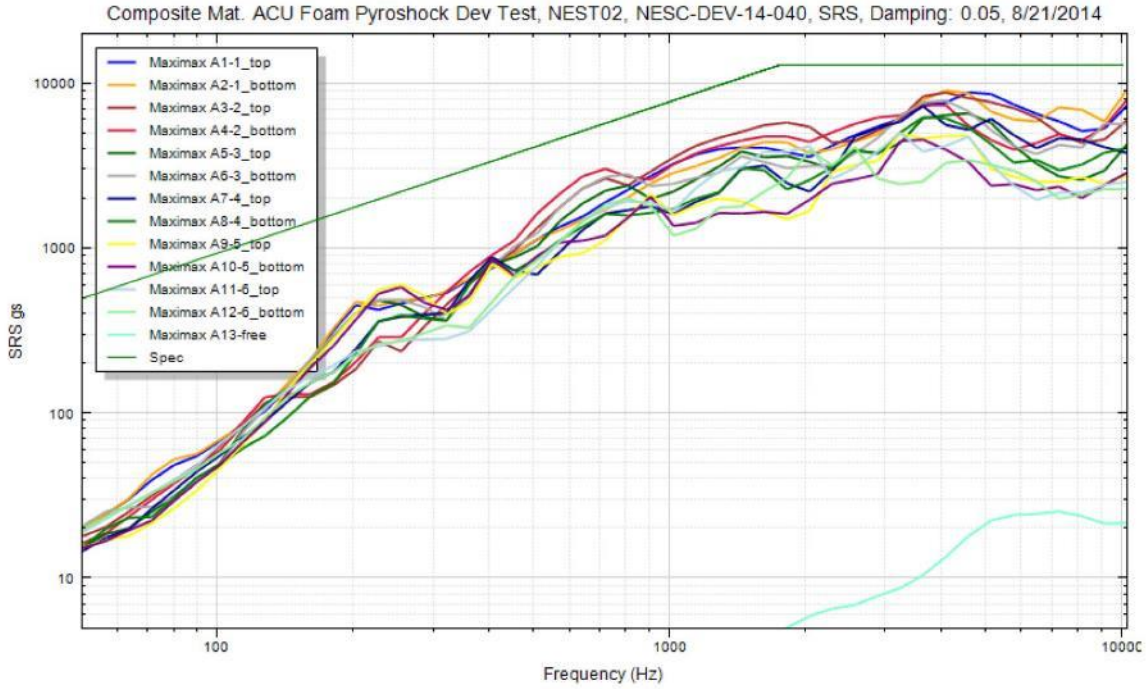
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST01, NESC-DEV-14-040, 8/20/2014
SRS Time A13-free
50
40
30
20
10
0
-10
-20
-30
-40
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

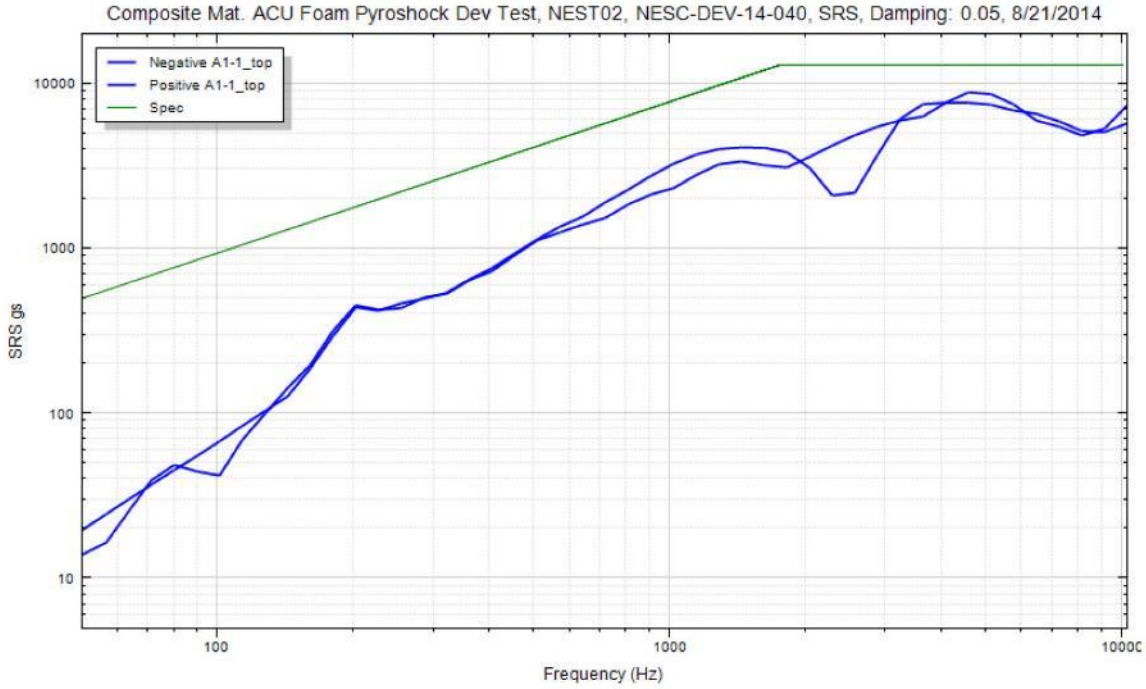
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #2 Accelerometer Data
Panel 0332A012

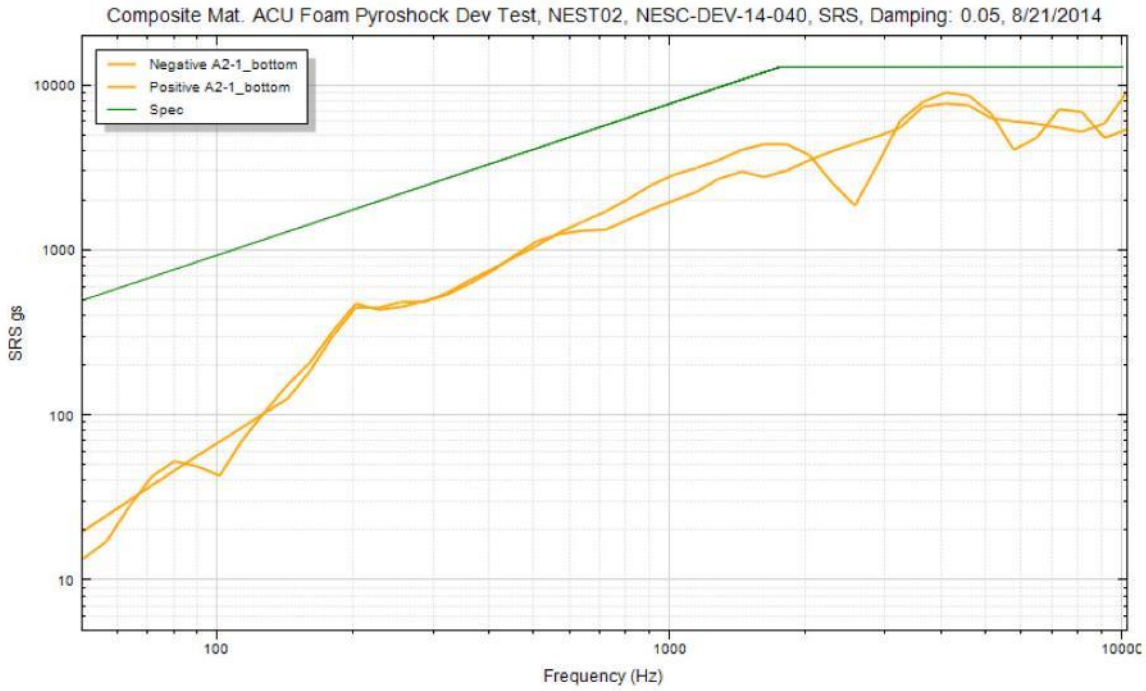
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

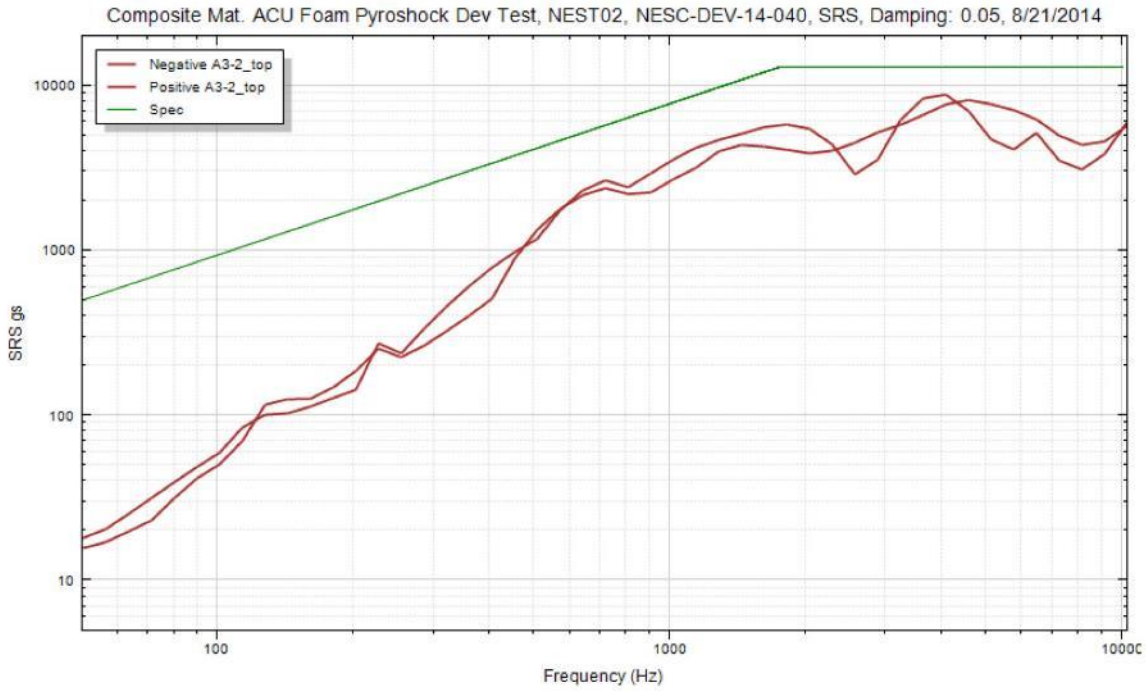
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

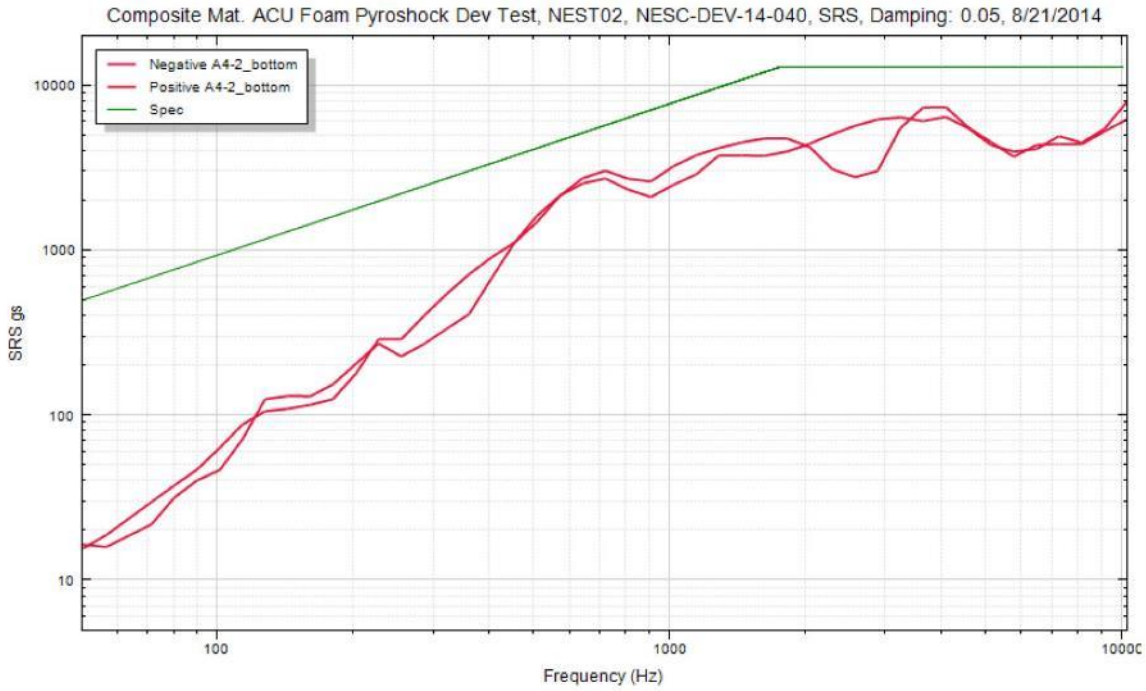
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

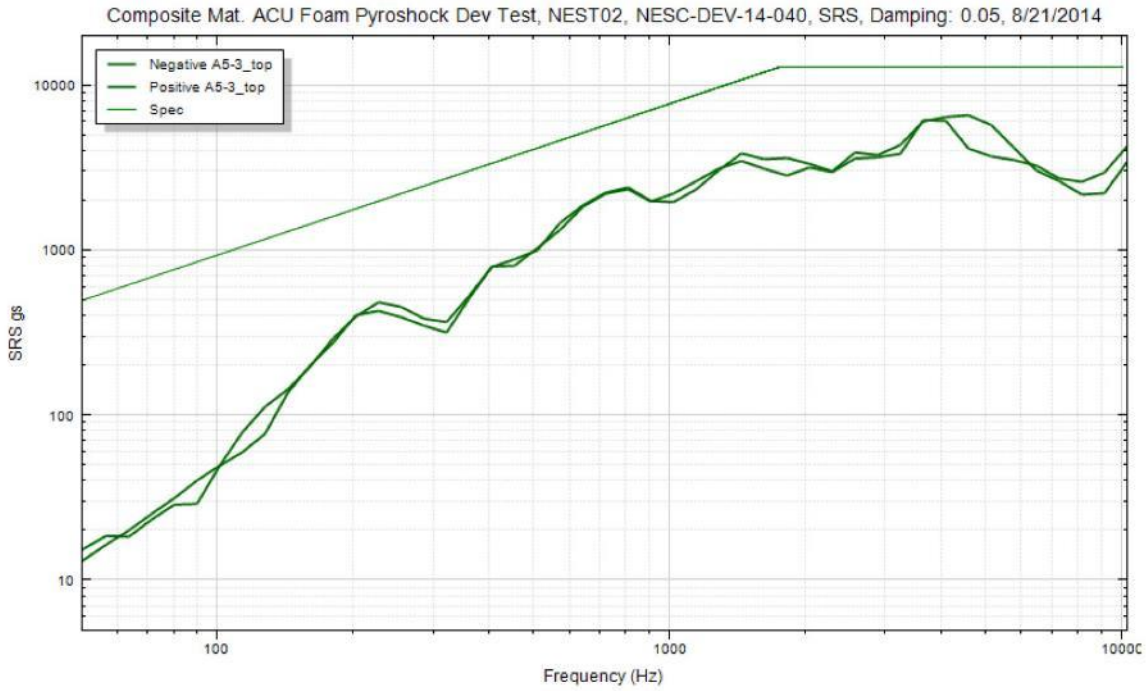
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

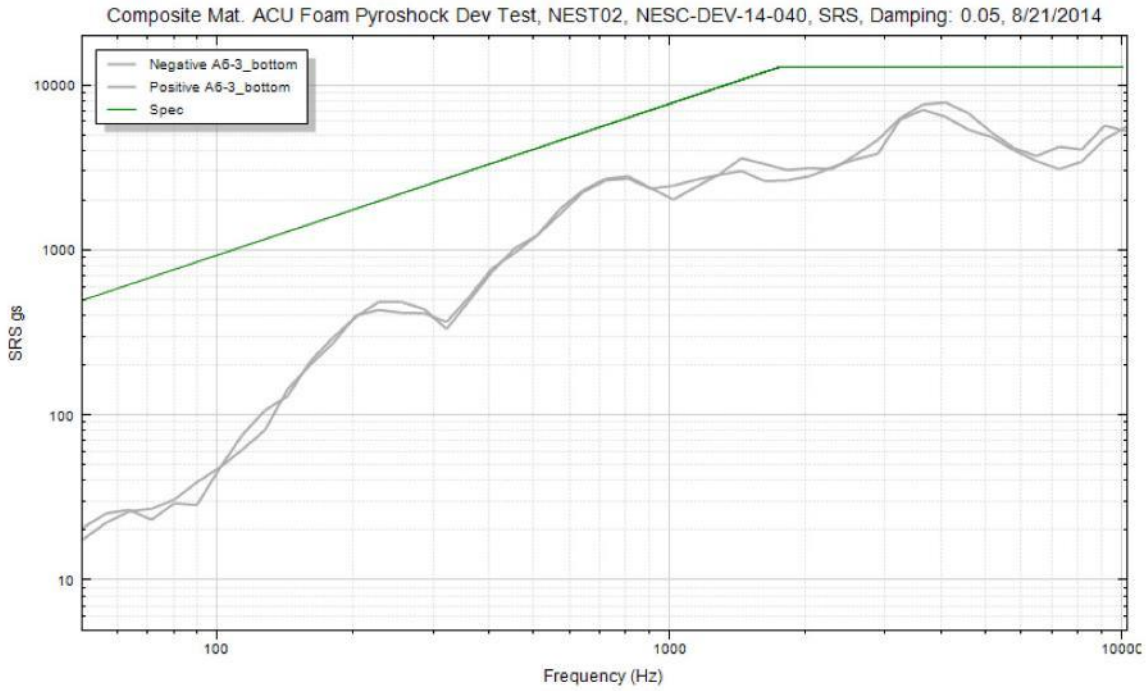
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

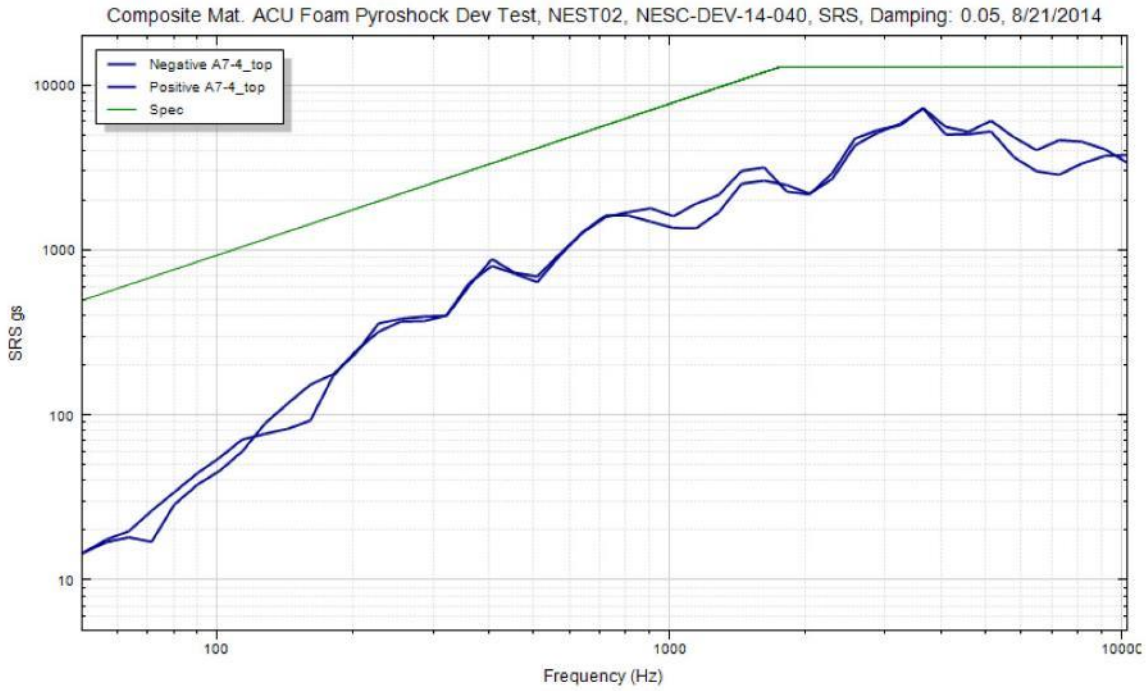
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

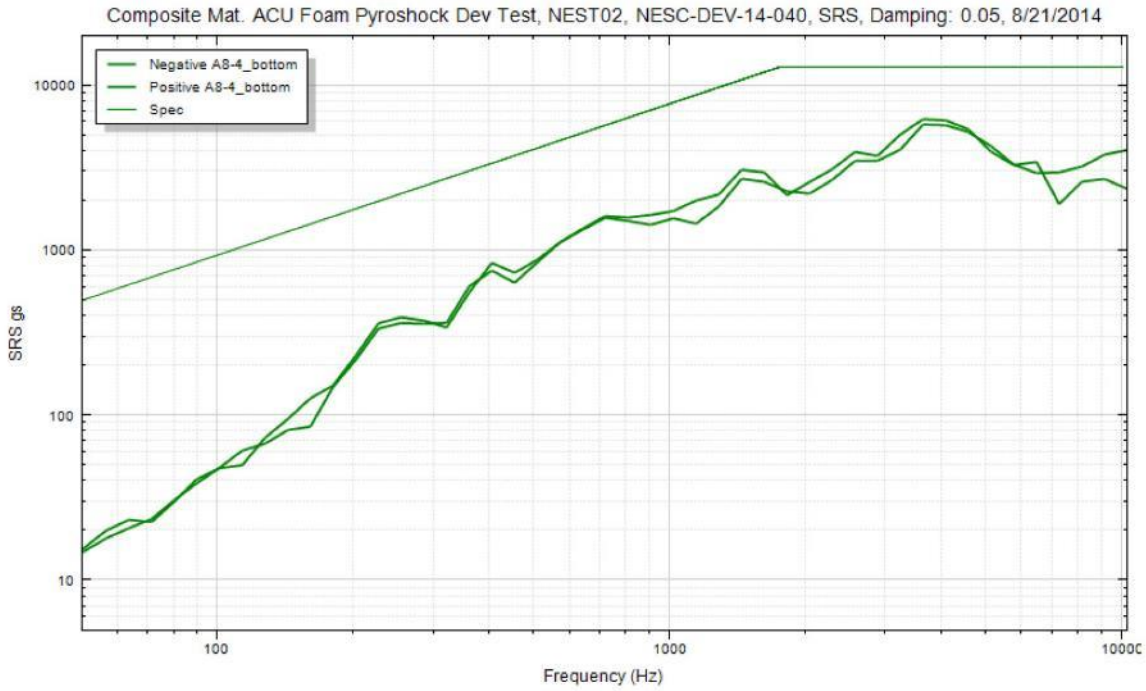
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

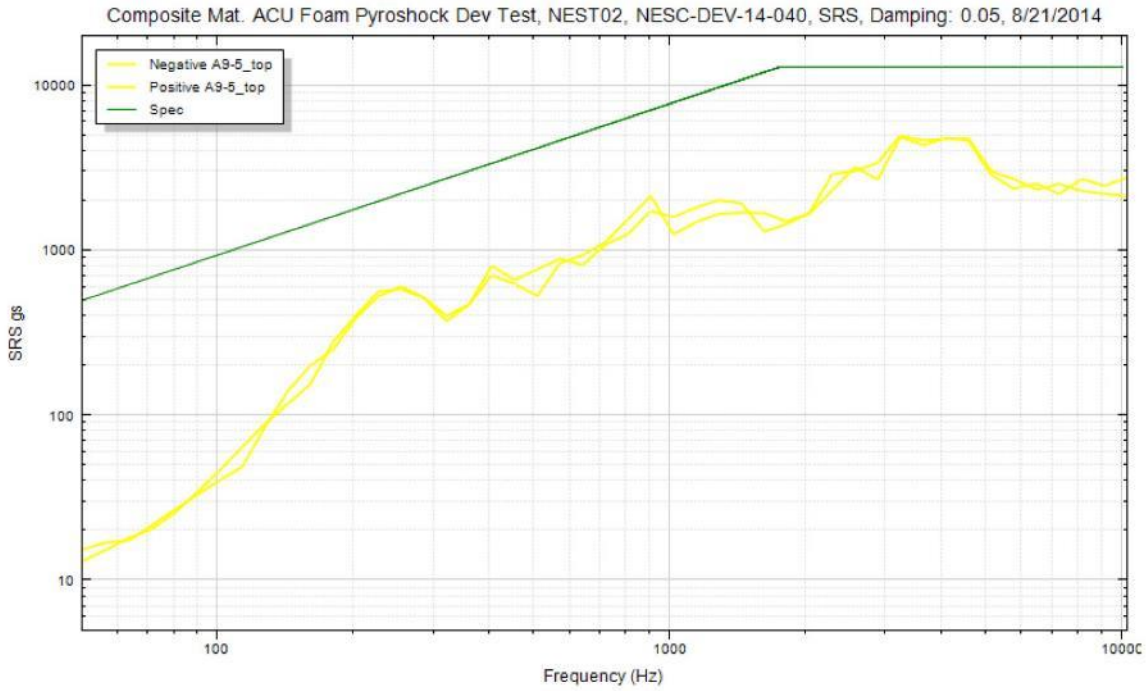
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

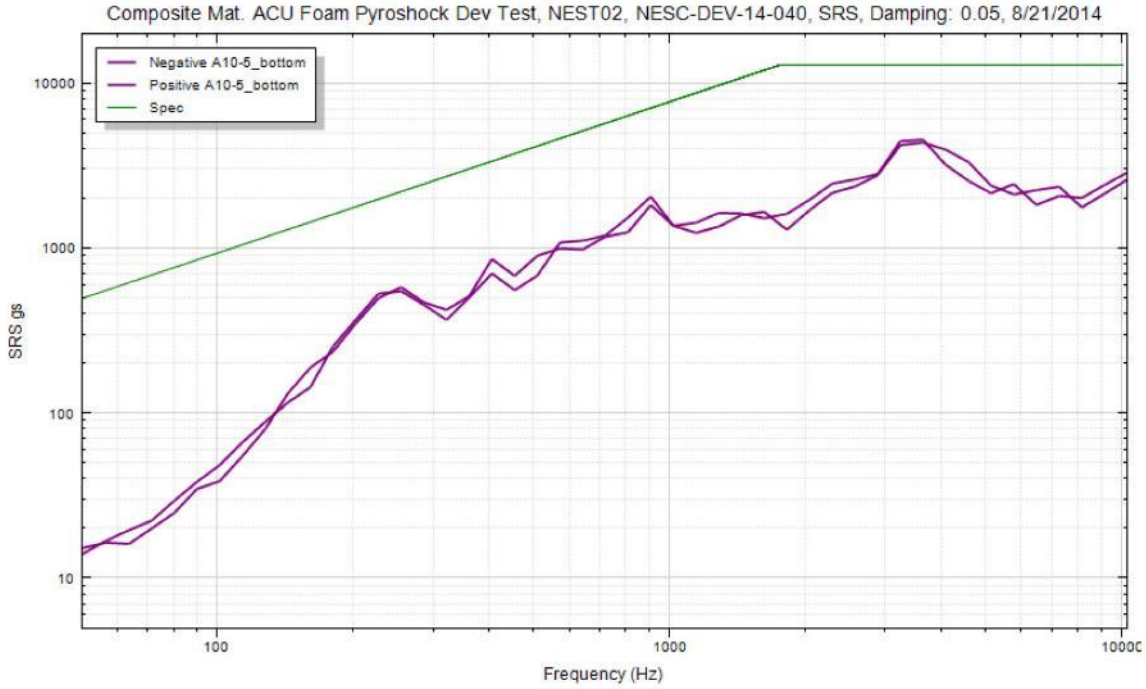
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

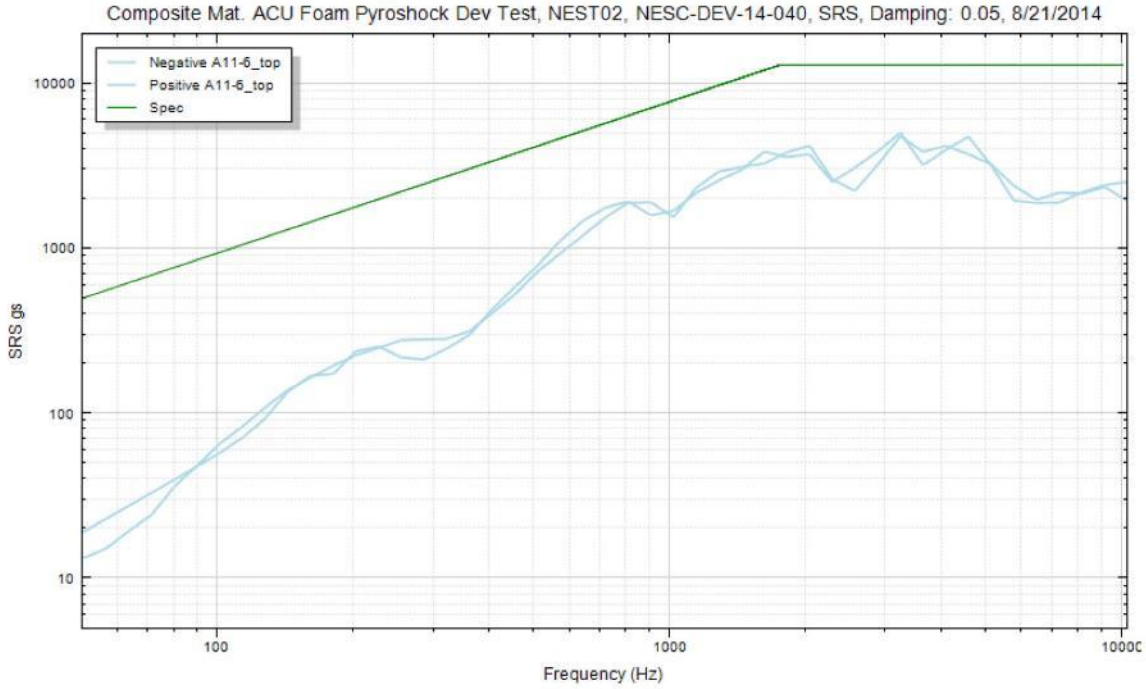
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

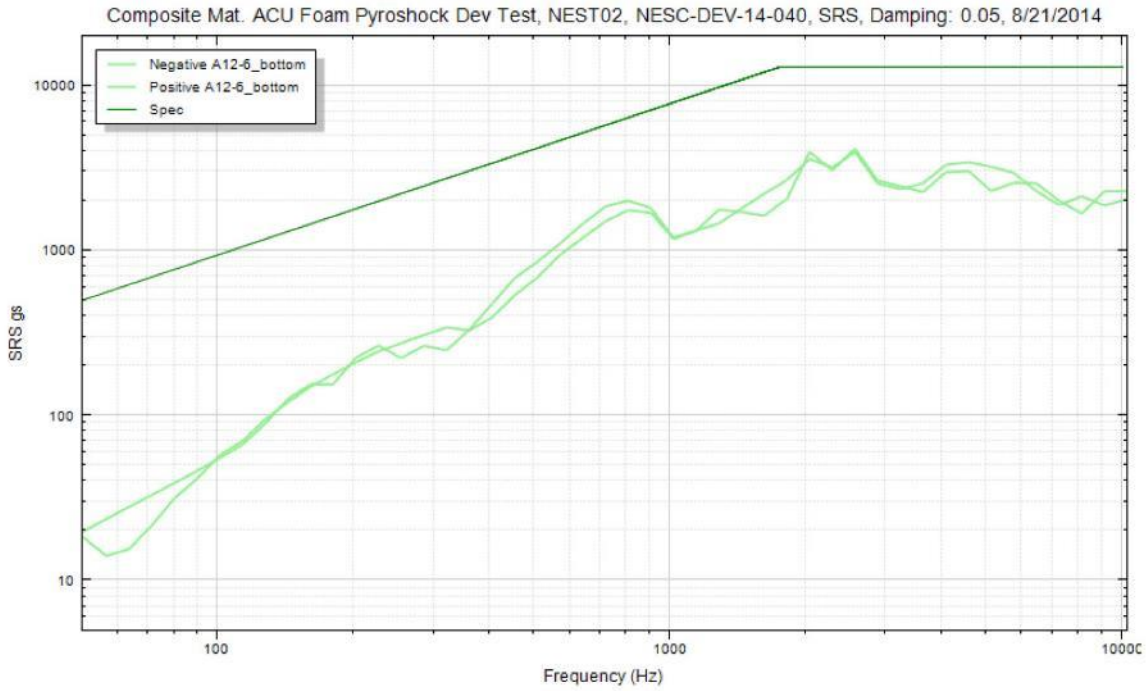
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

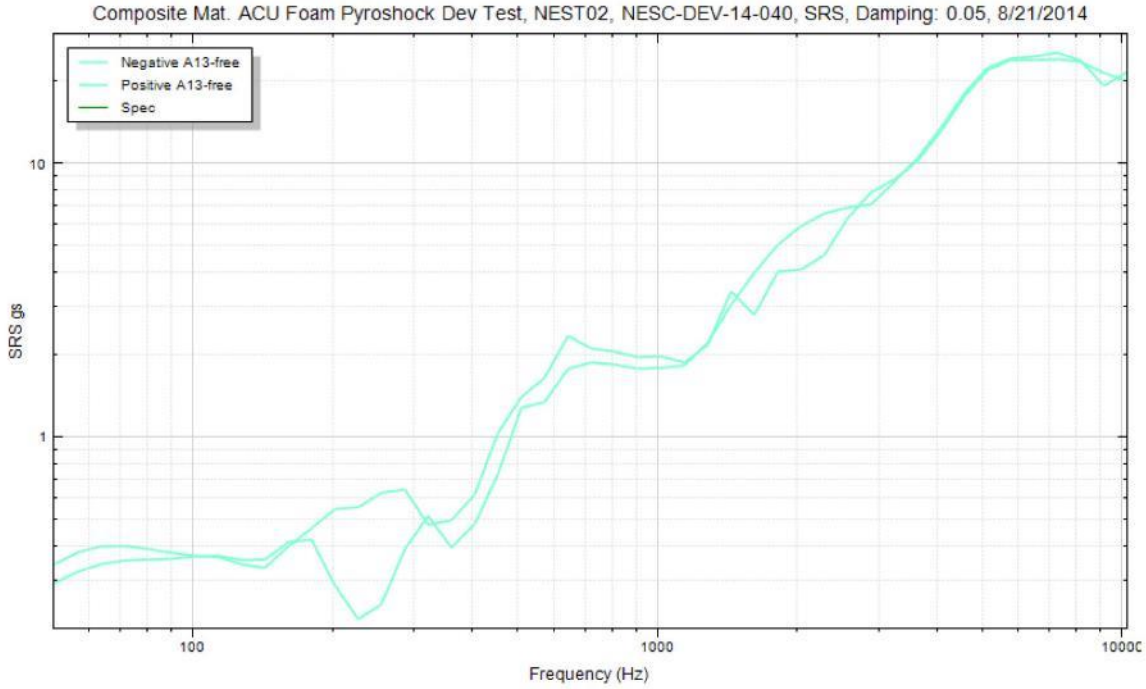
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

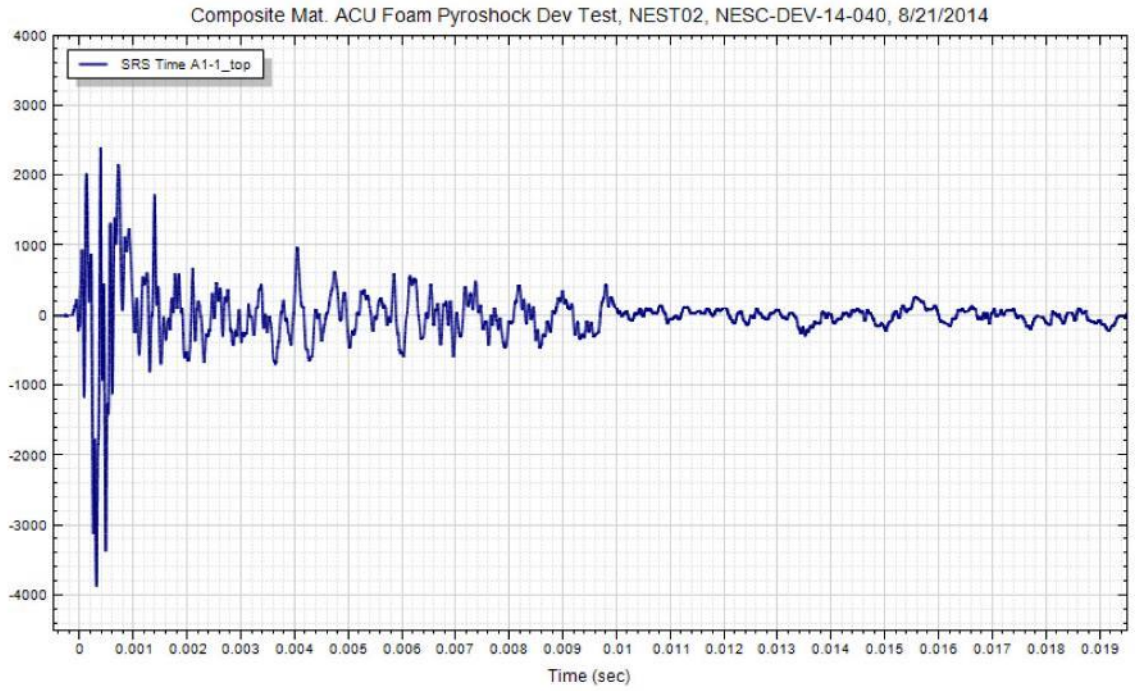
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

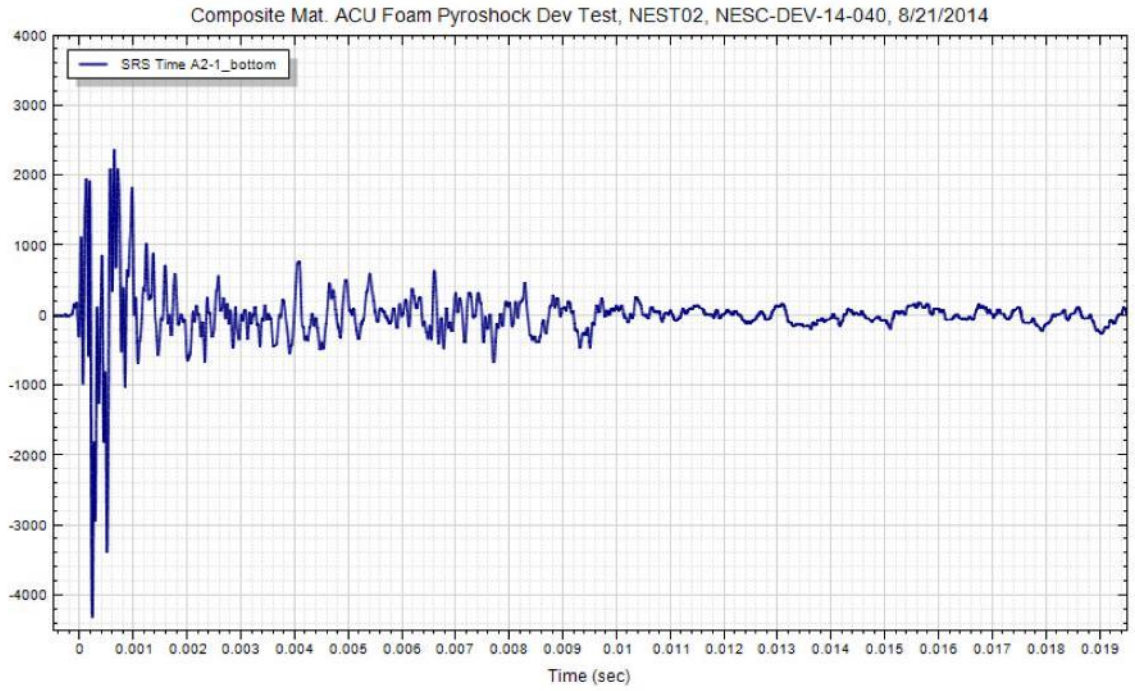
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, SRS, Damping: 0.05, 8/21/2014
Negative A13-free
Positive A13-free
Spec
10
1
SRS gs
100
1000
10000
Frequency (Hz)

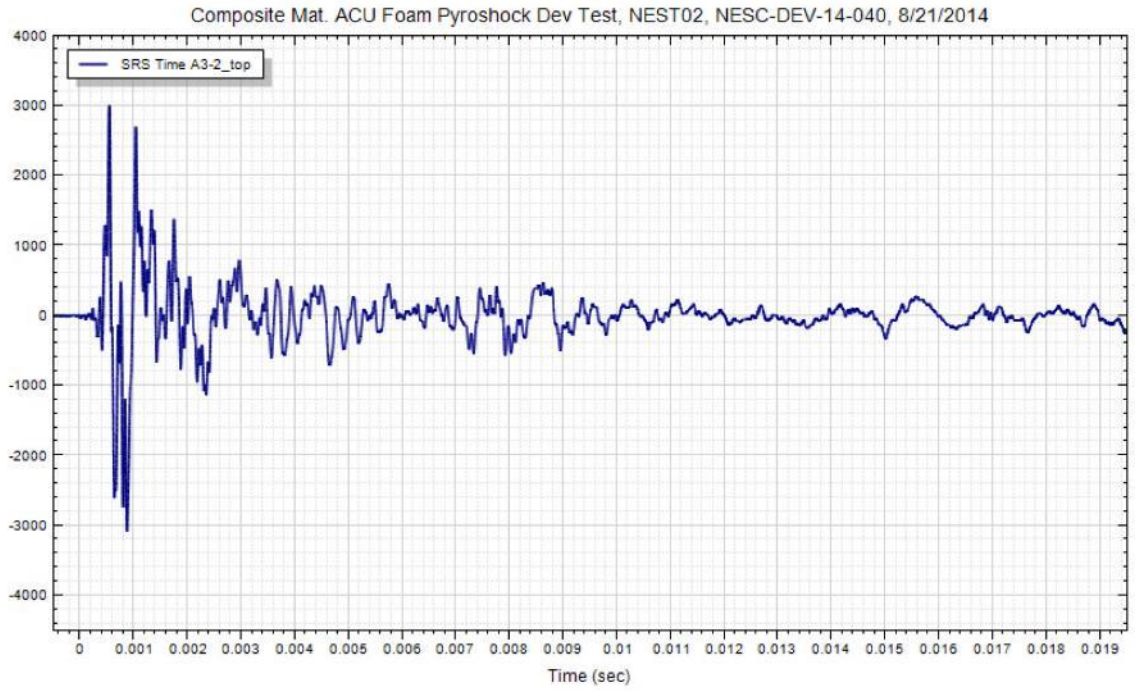
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A1-1_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

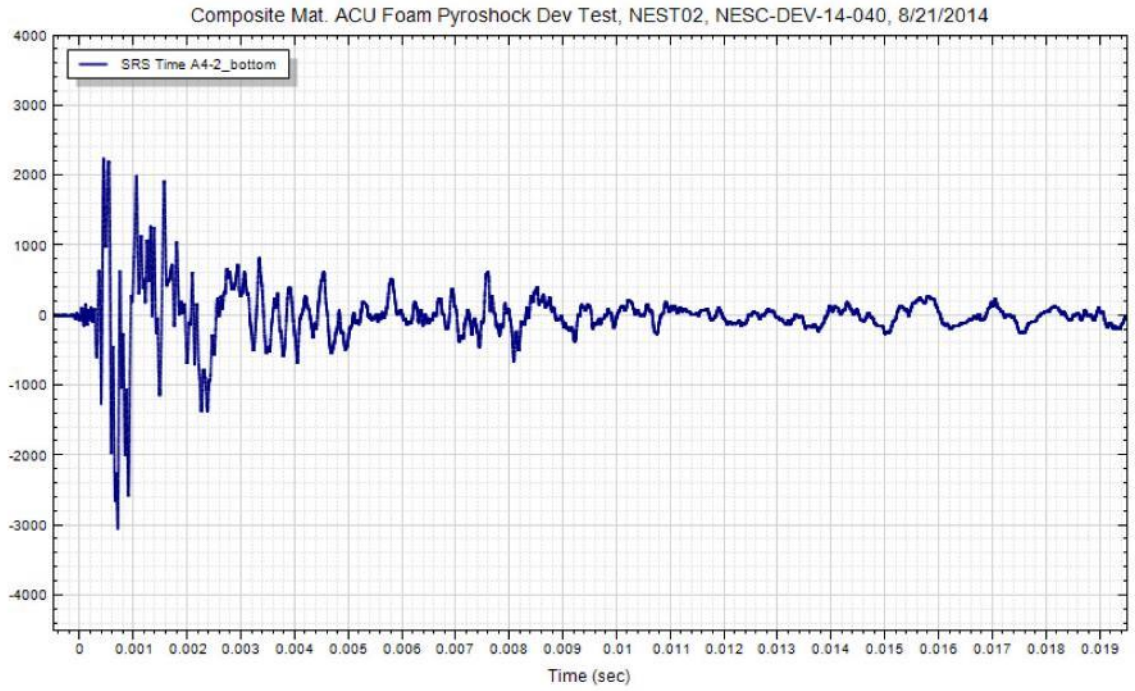
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A2-1_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

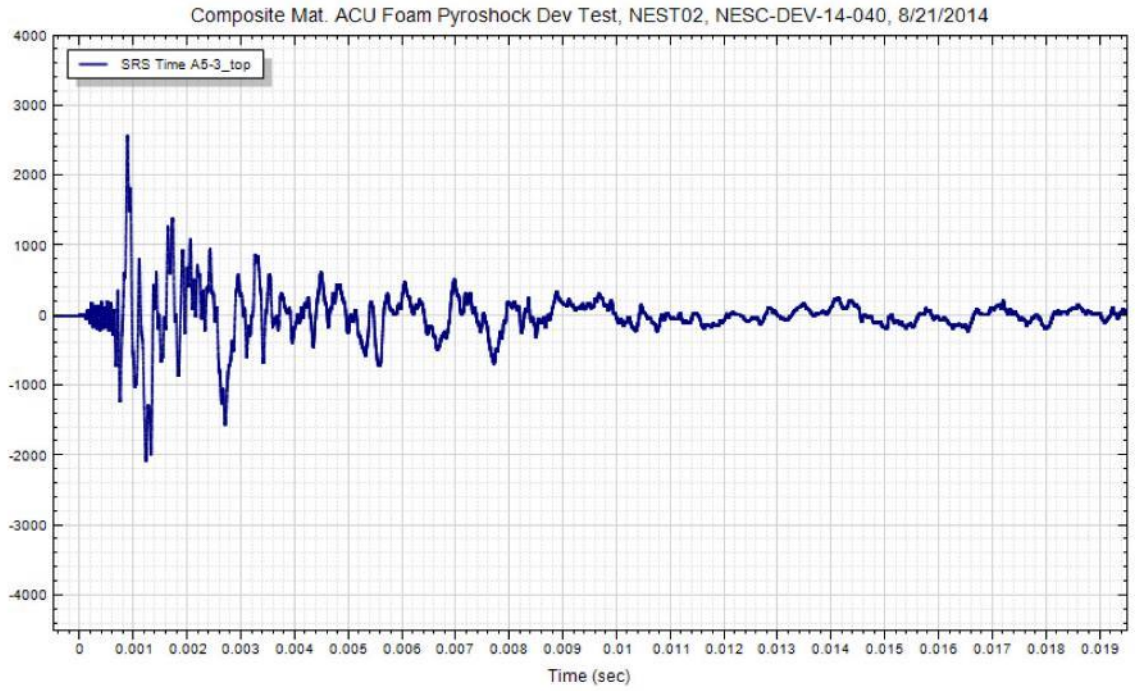
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A3-2_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

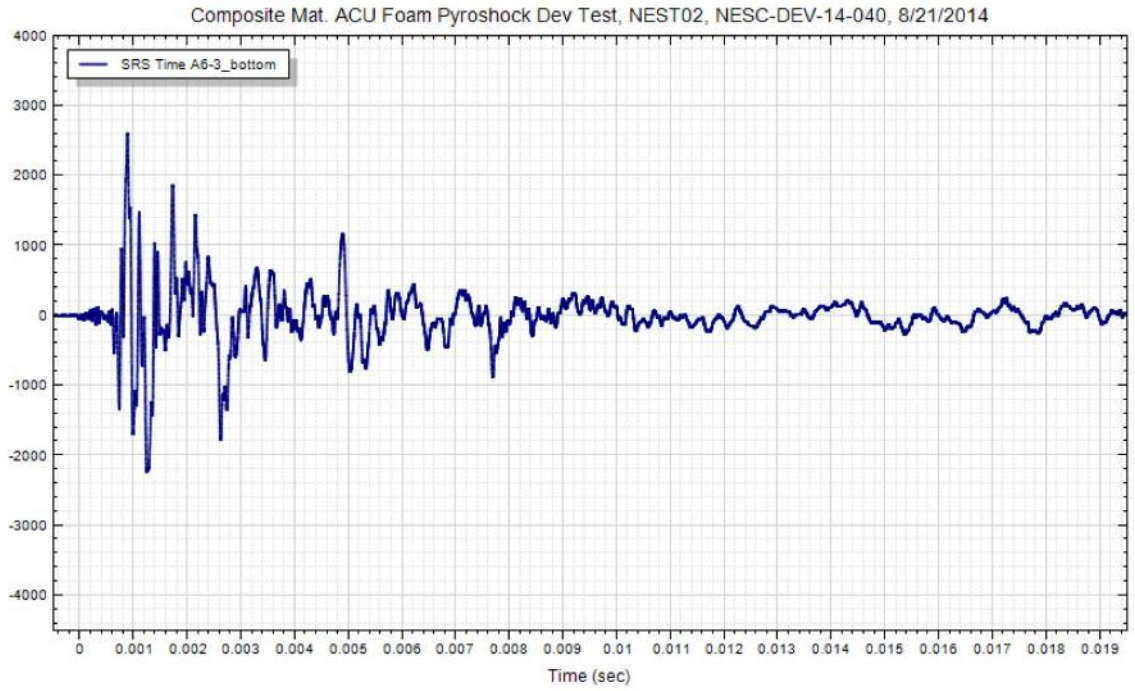
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A4-2_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

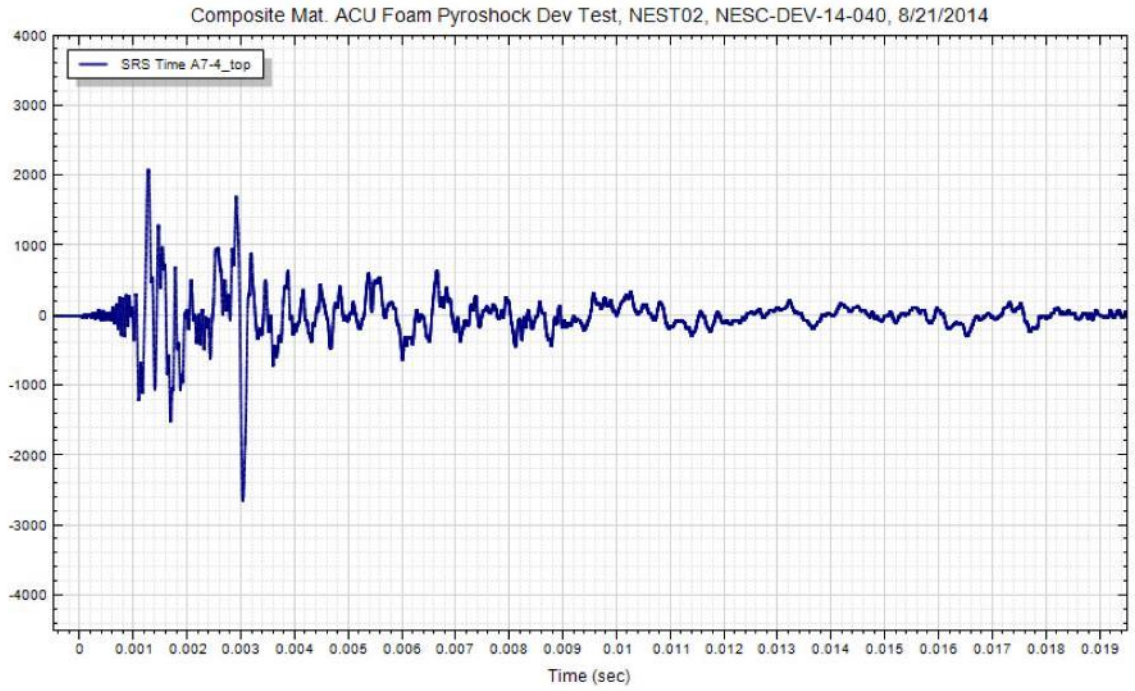
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A5-3_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

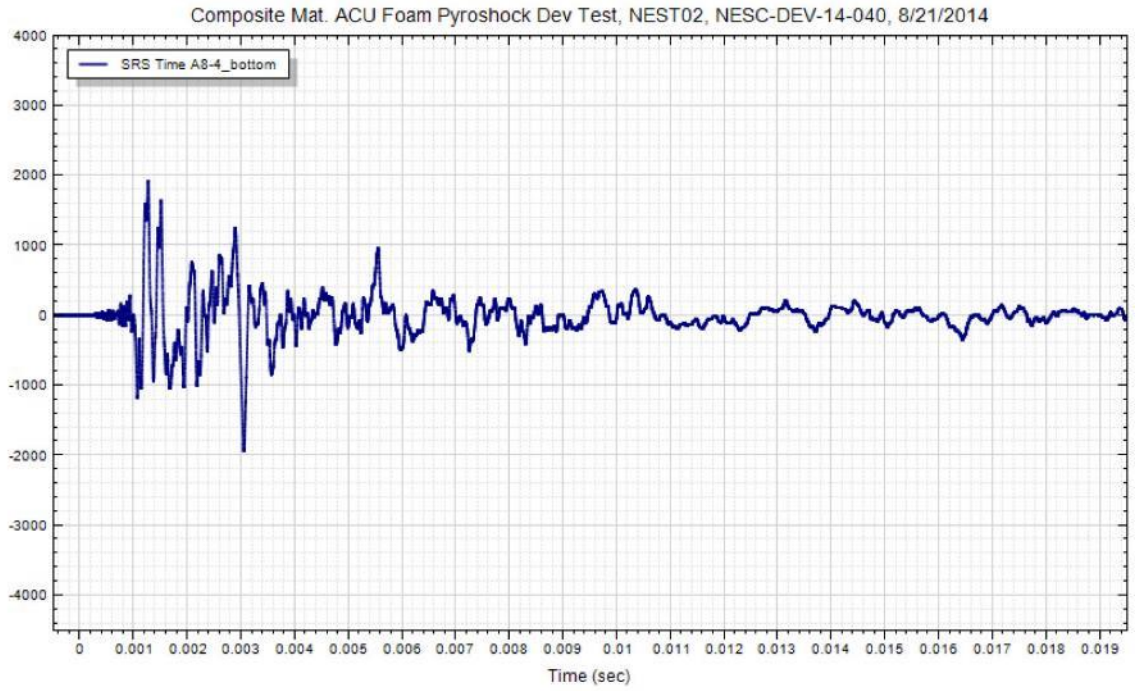
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A6-3_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

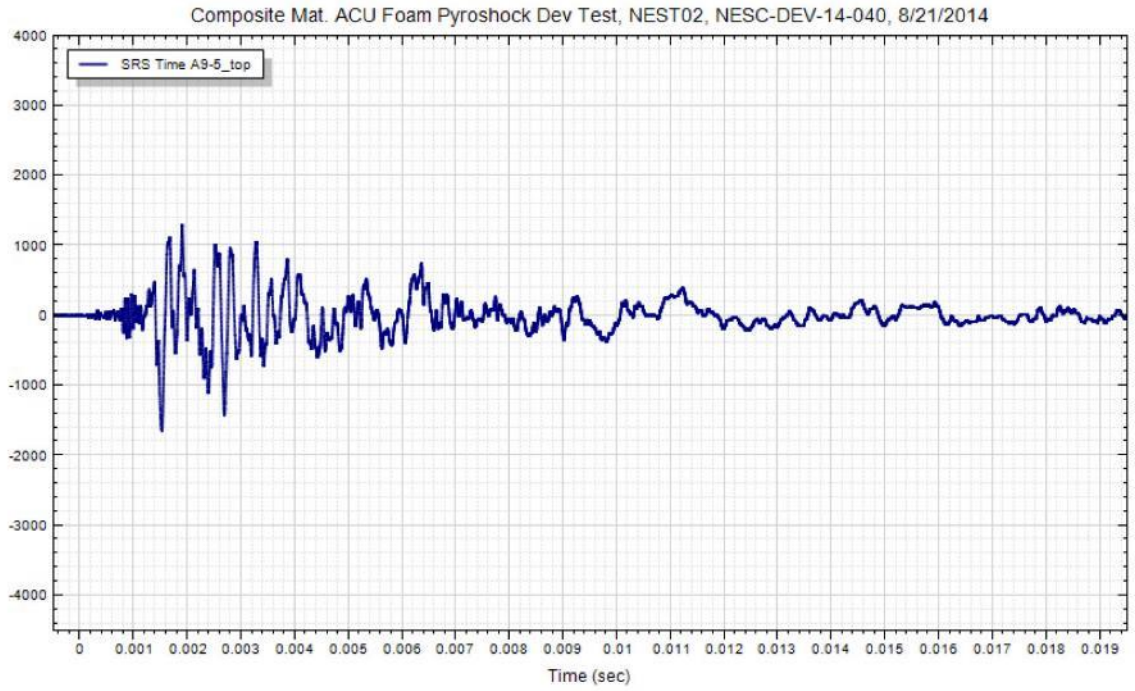
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A7-4_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

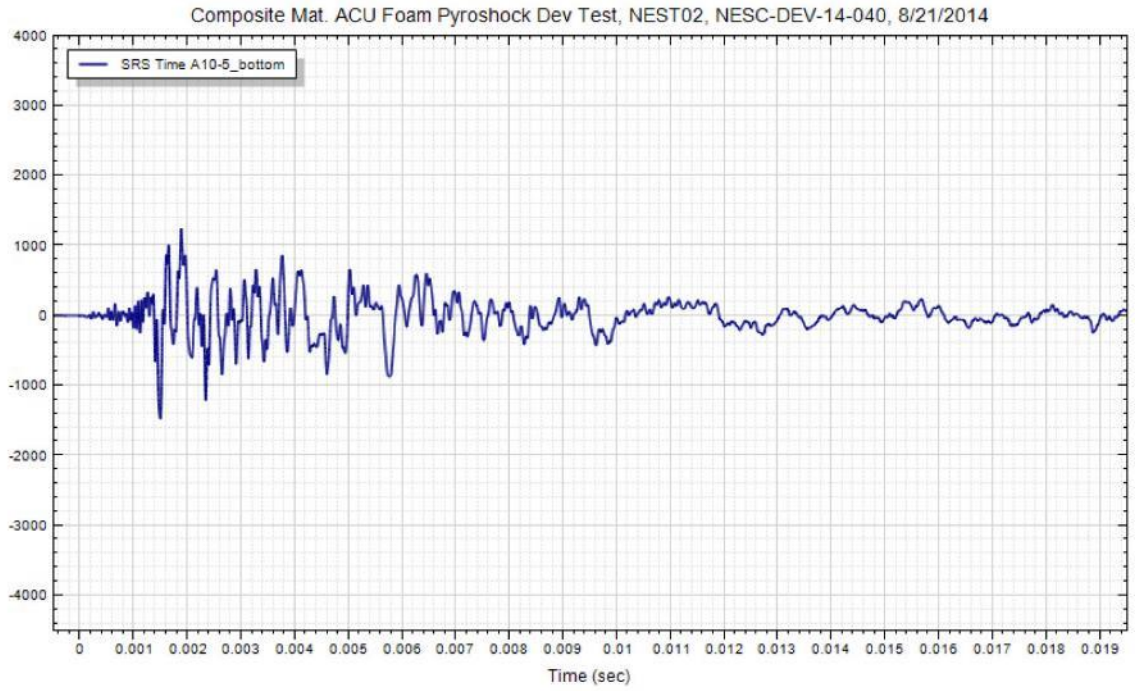
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A8-4_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

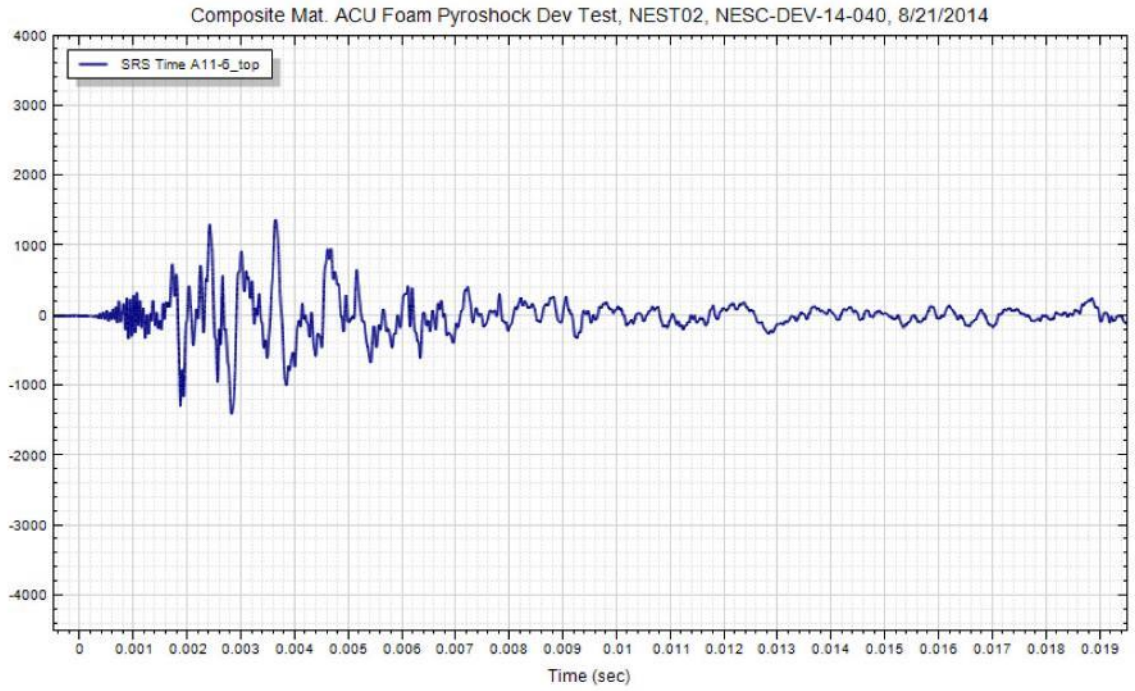
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A9-5_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

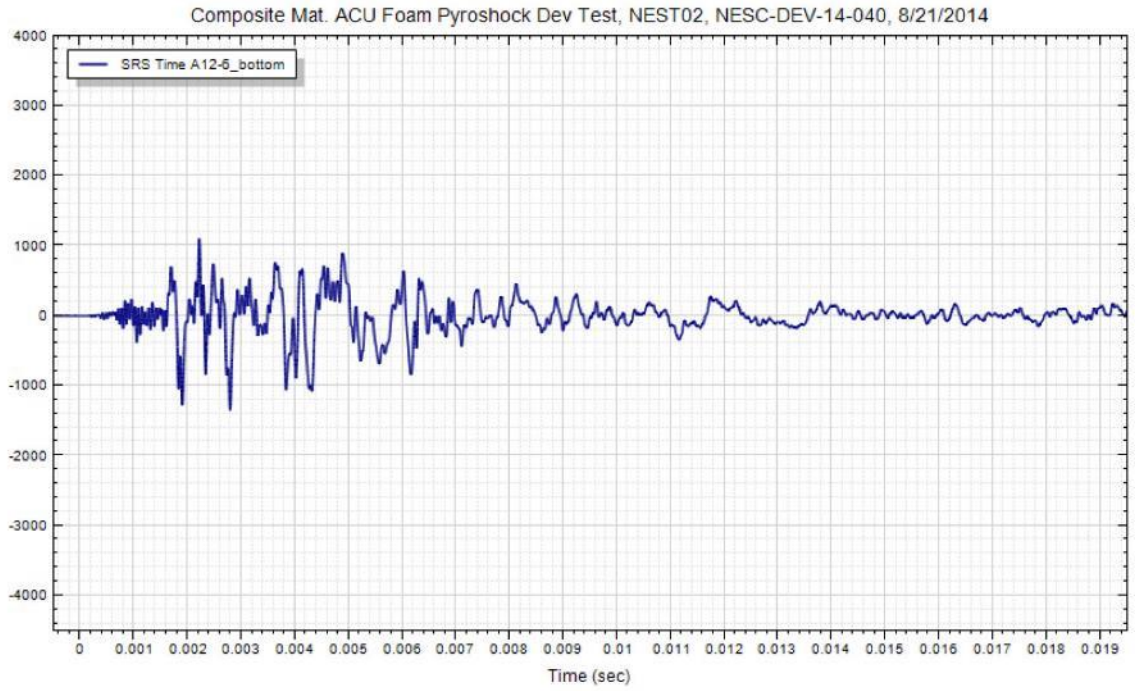
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A10-5_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

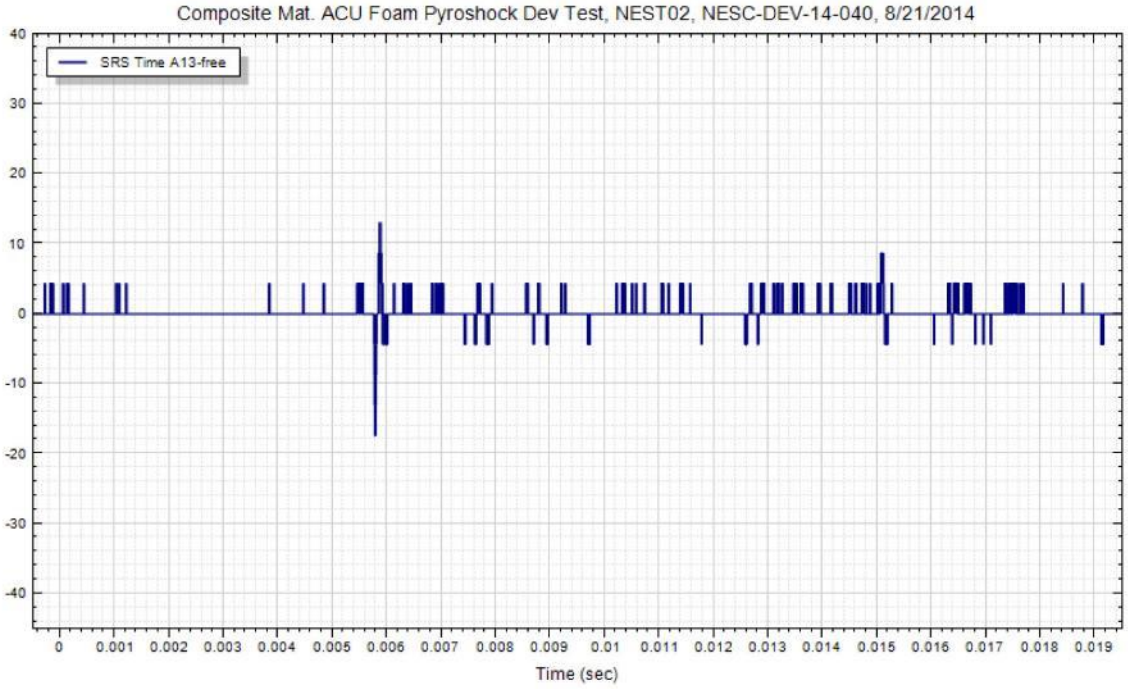
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A11-6_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A12-6_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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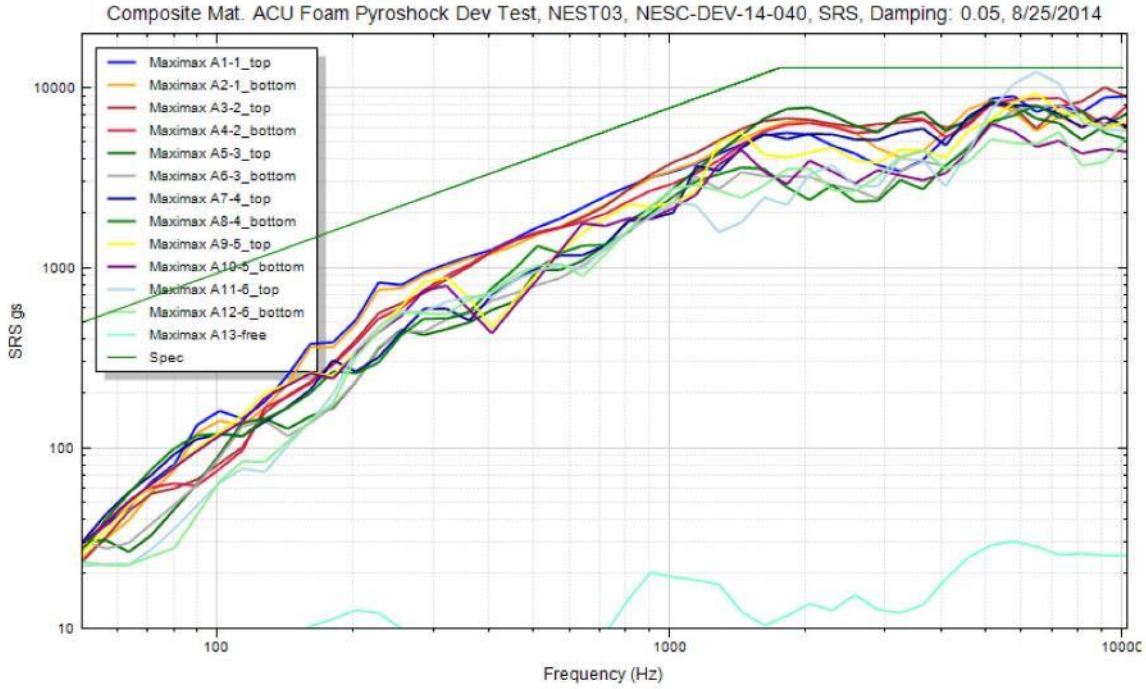

Composite Mat. ACU Foam Pyroshock Dev Test, NEST02, NESC-DEV-14-040, 8/21/2014
SRS Time A13-free
40
30
20
10
0
-10
-20
-30
-40
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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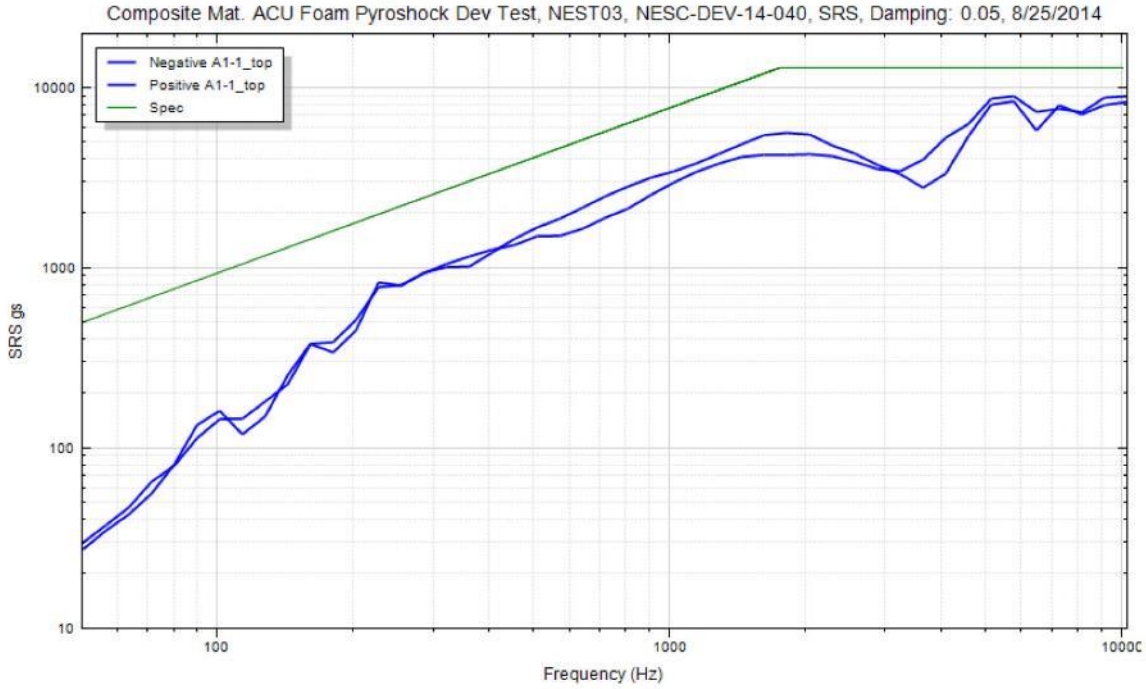
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #3 Accelerometer Data
Panel 0326A008

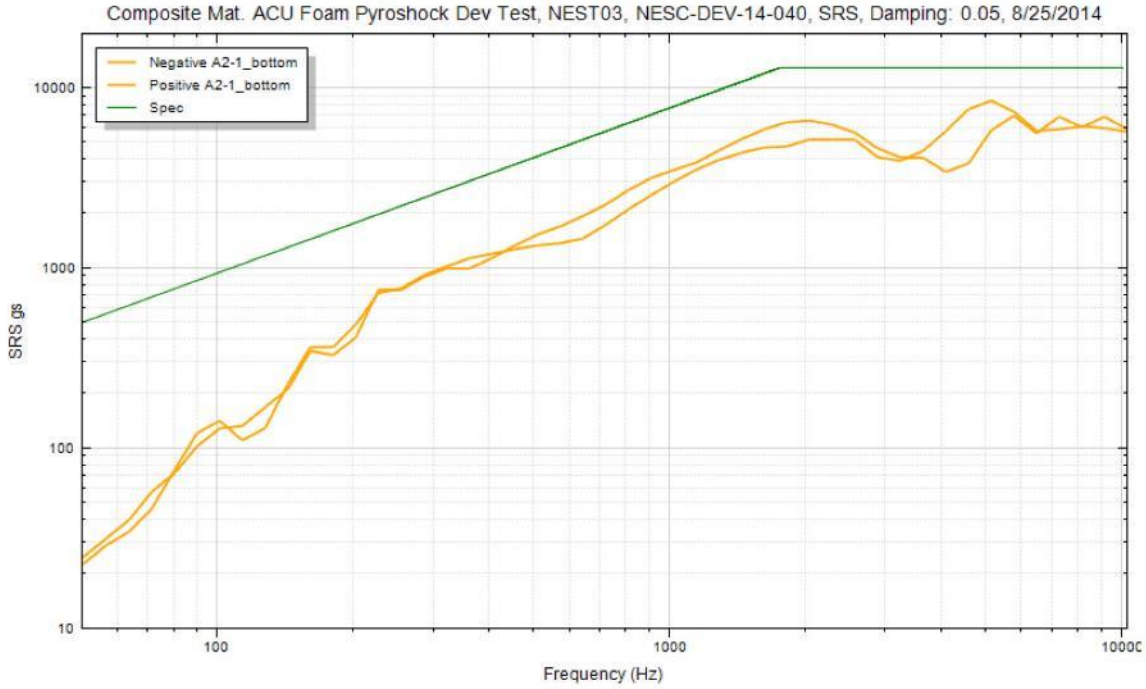
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

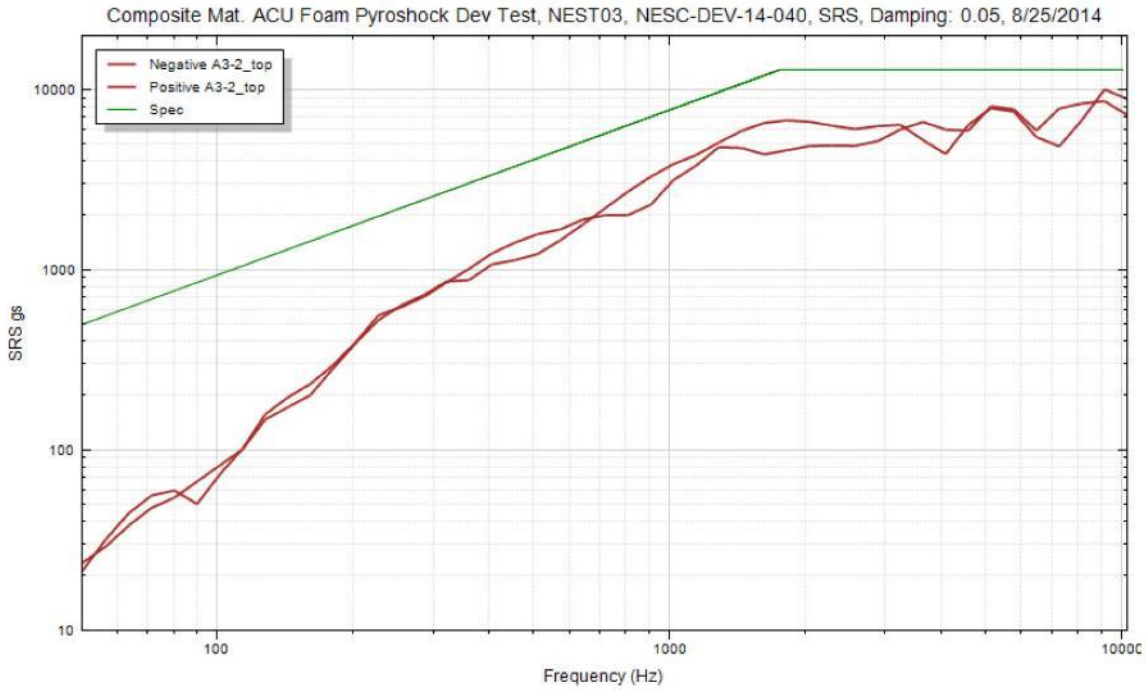
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

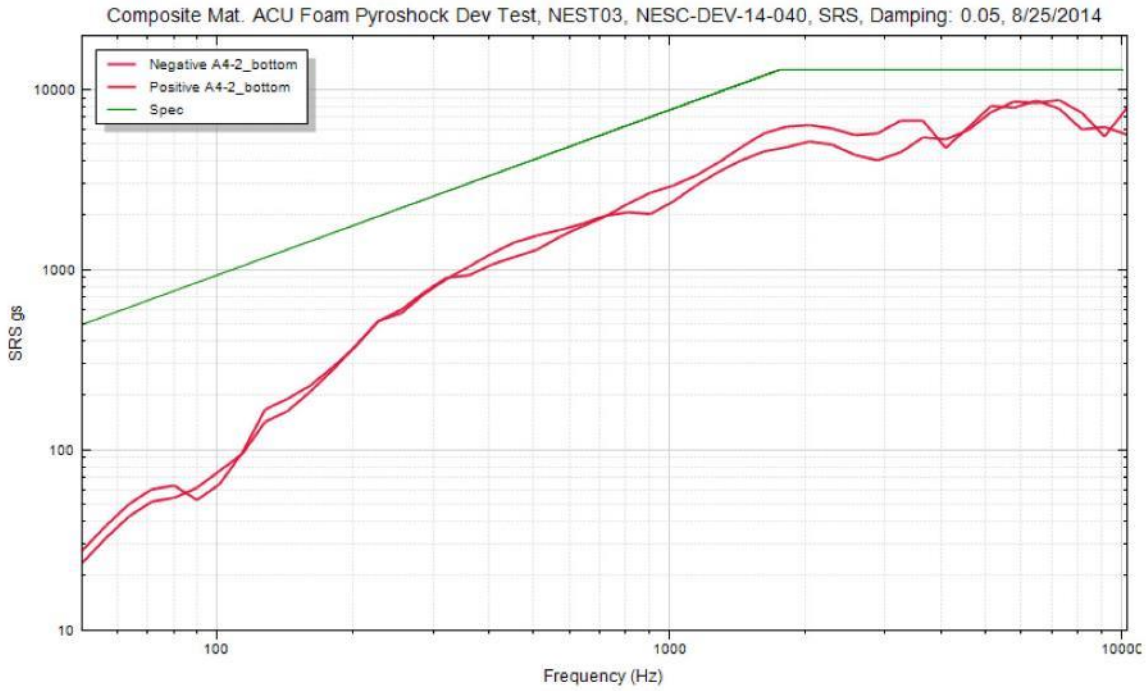
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS g's
100
1000
10000
Frequency (Hz)

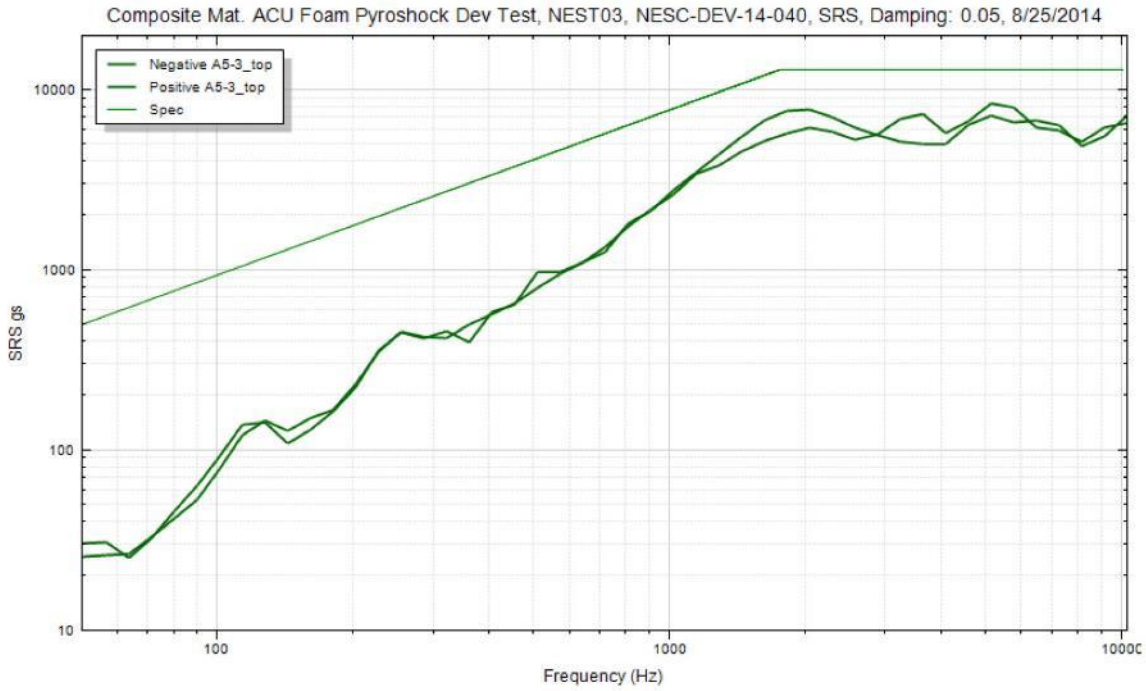
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

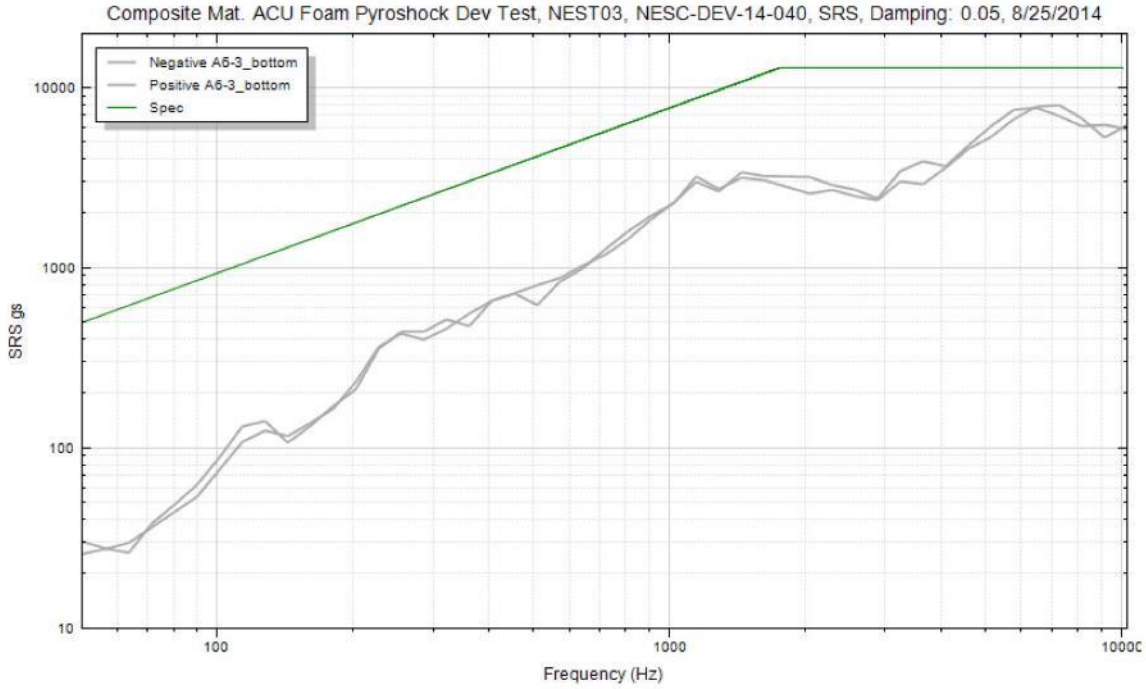
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

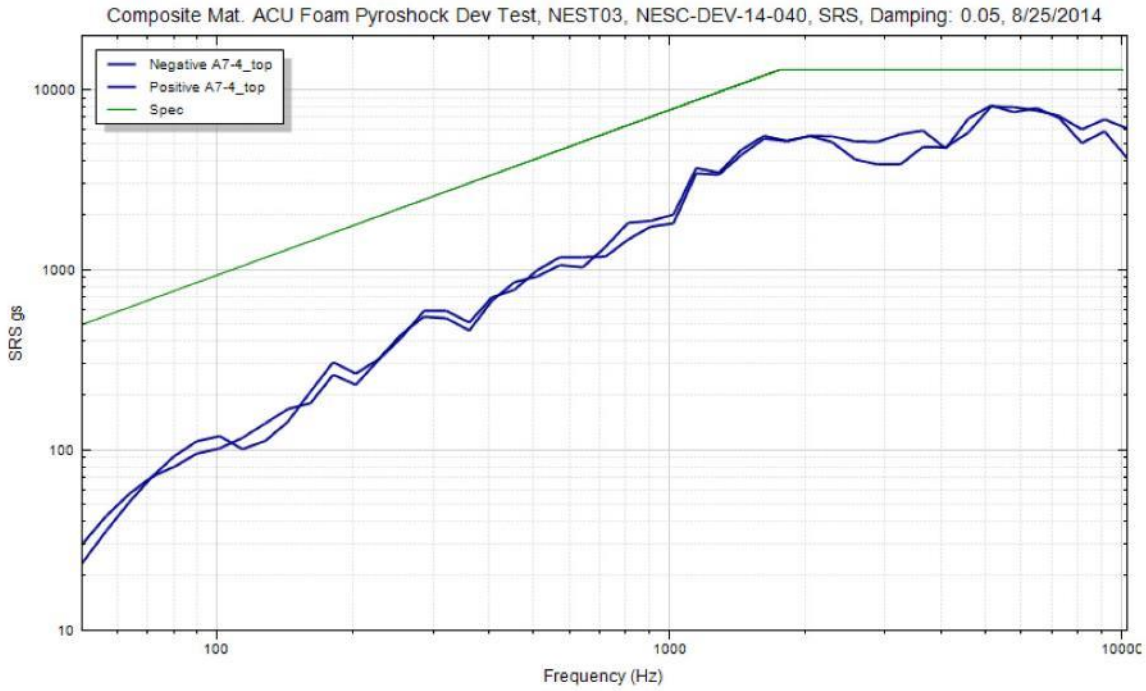
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

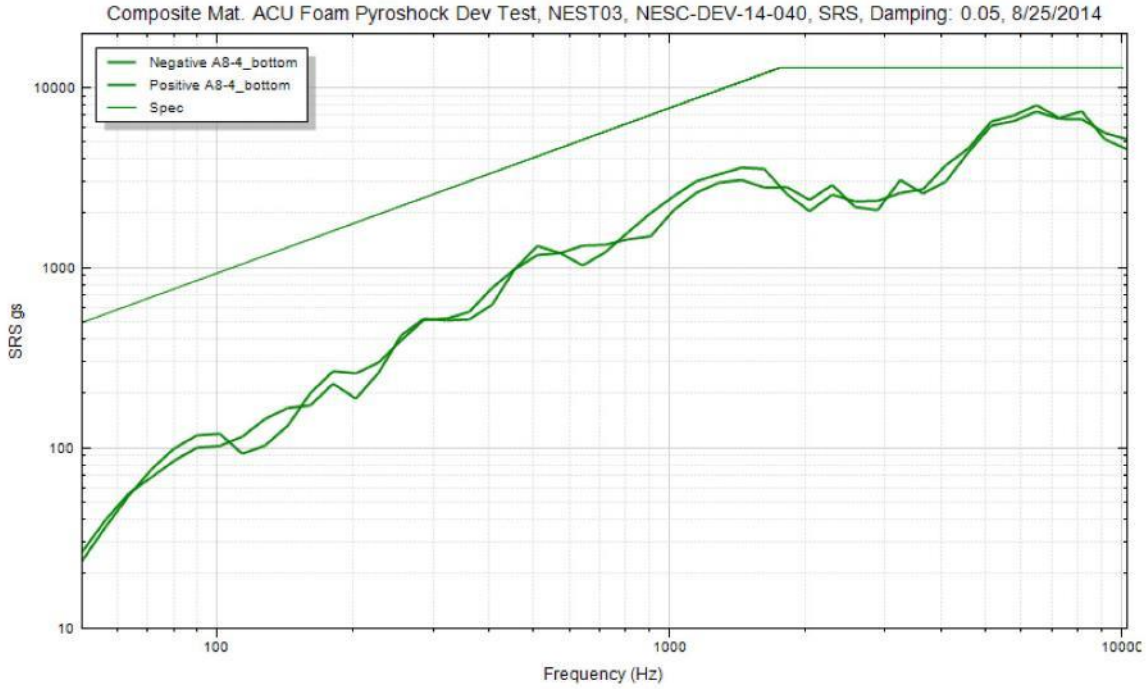
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

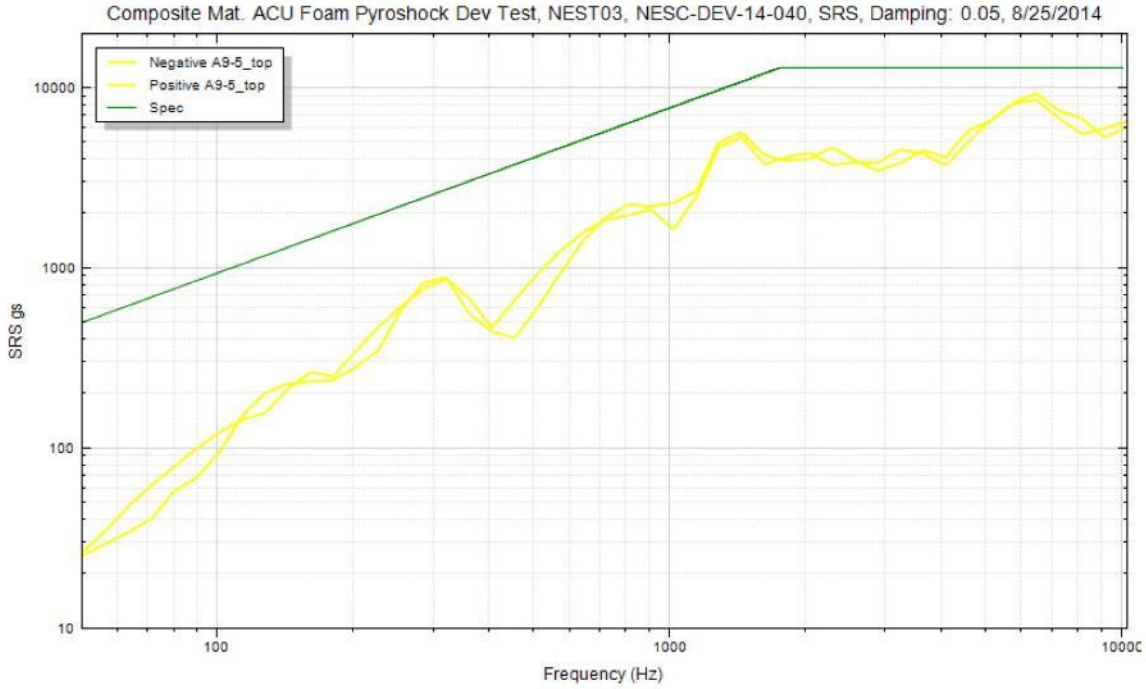
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

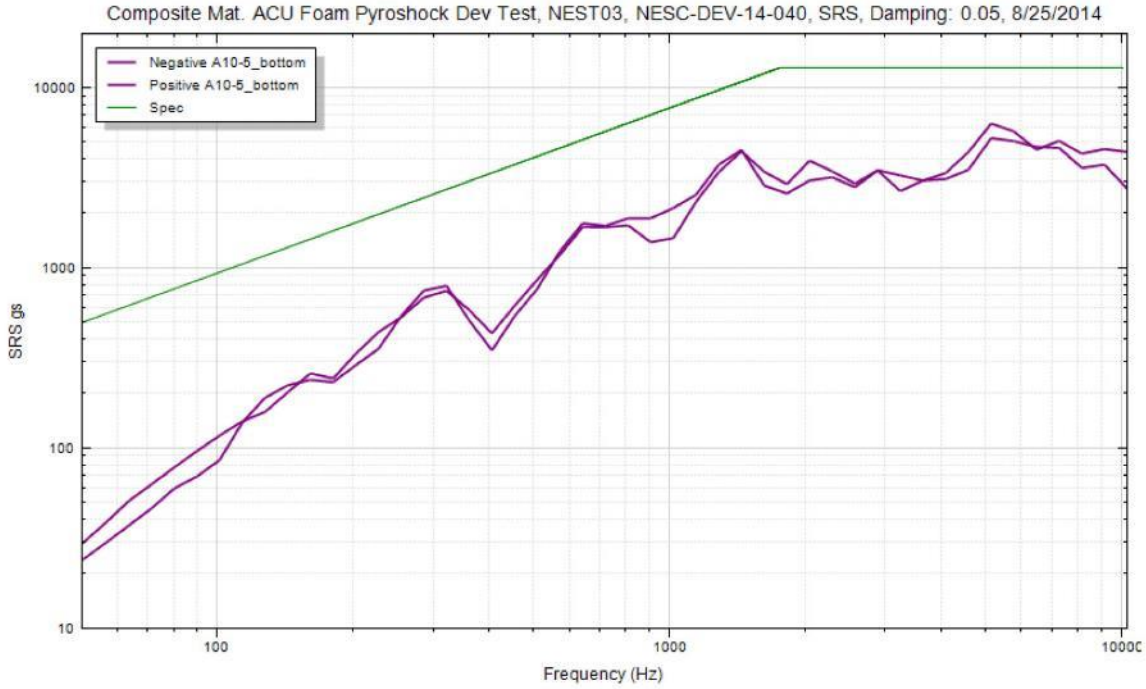
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

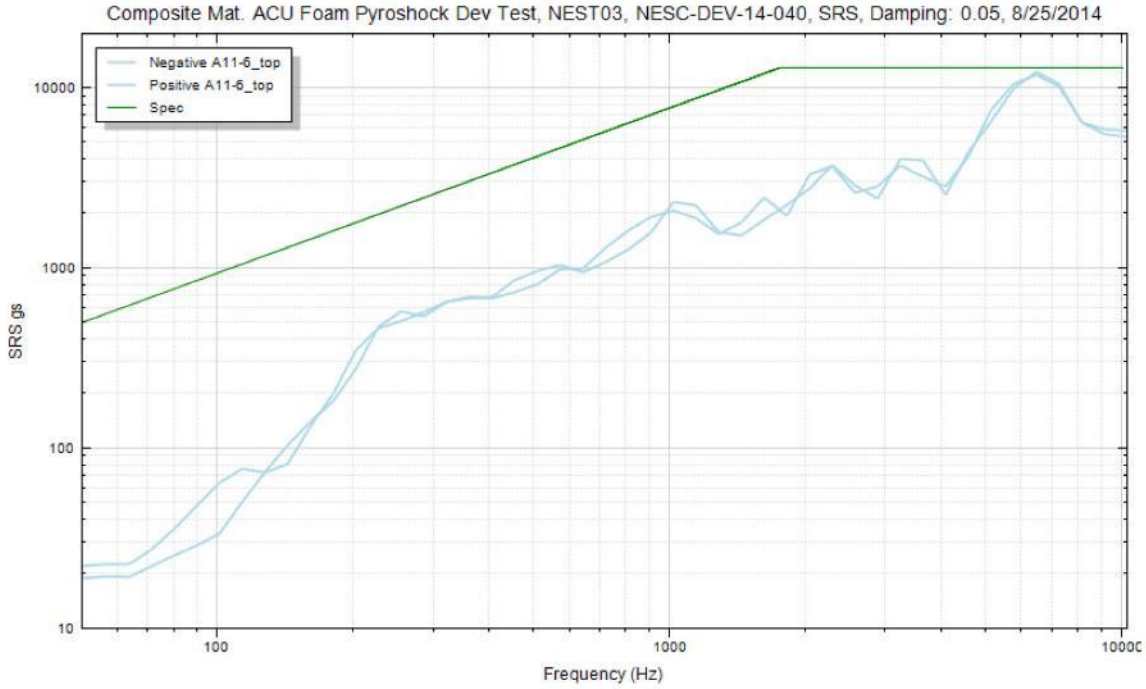
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

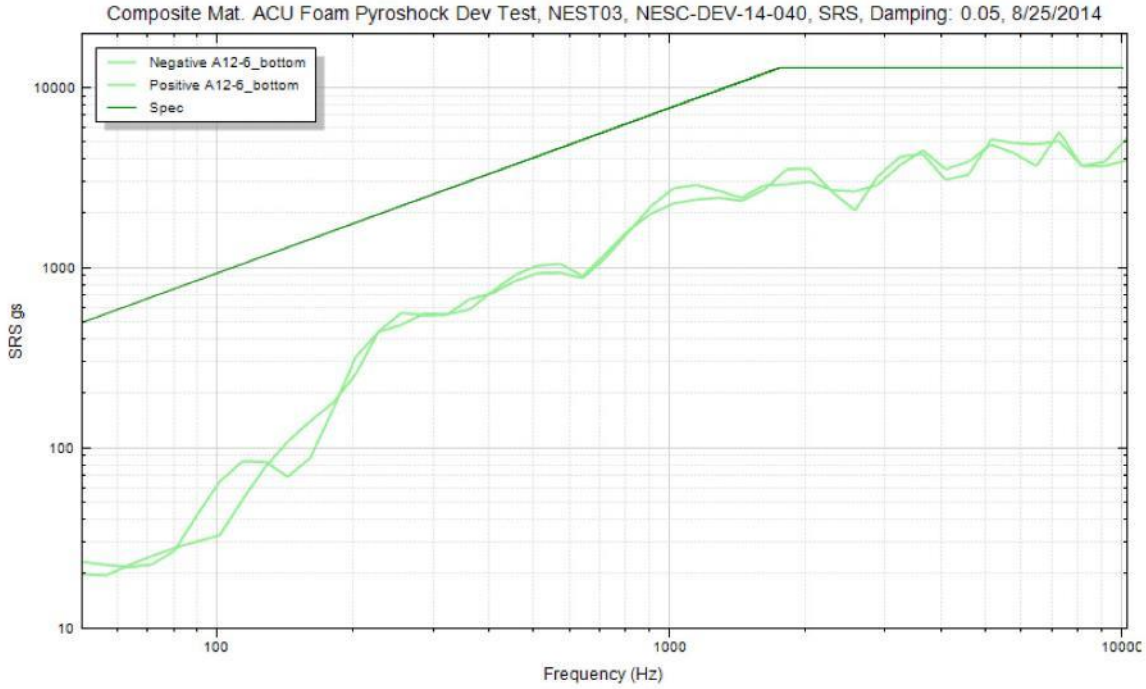
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

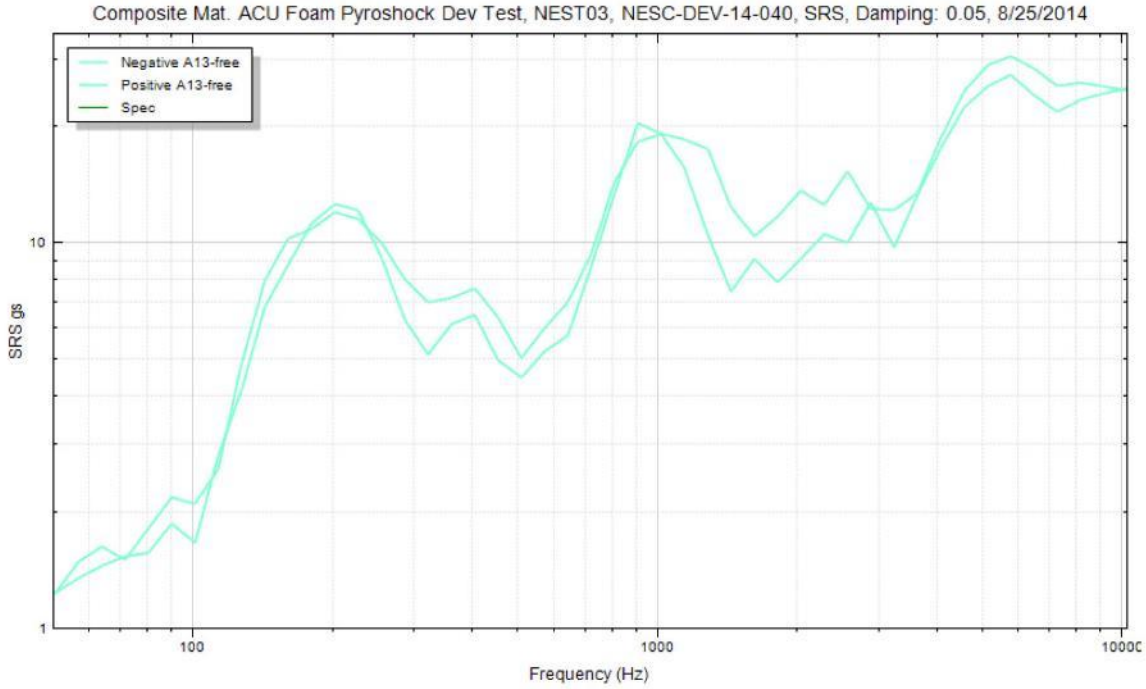
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

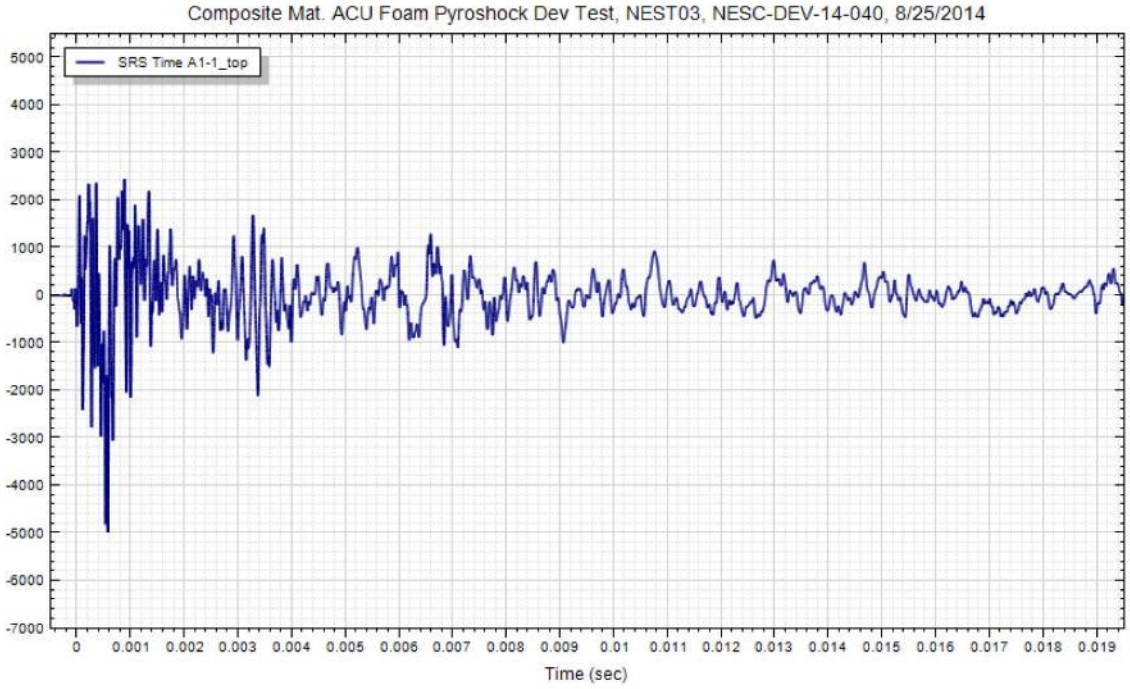
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

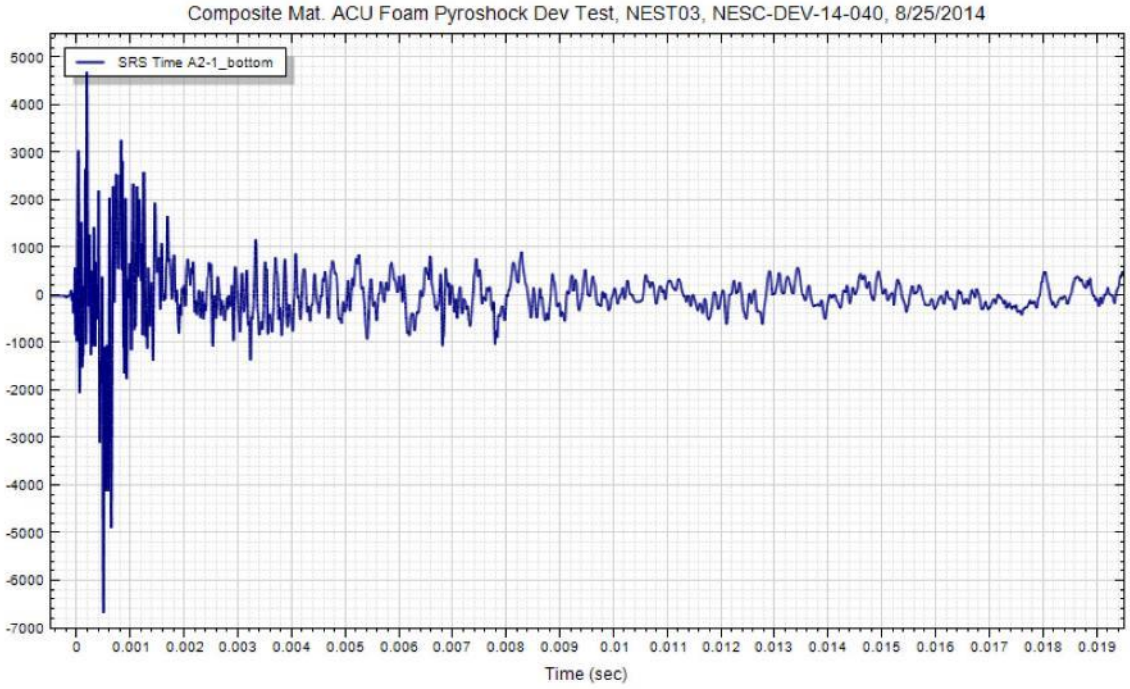
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, SRS, Damping: 0.05, 8/25/2014
Negative A13-free
Positive A13-free
Spec
SRS gs
10
1
100
1000
10000
Frequency (Hz)

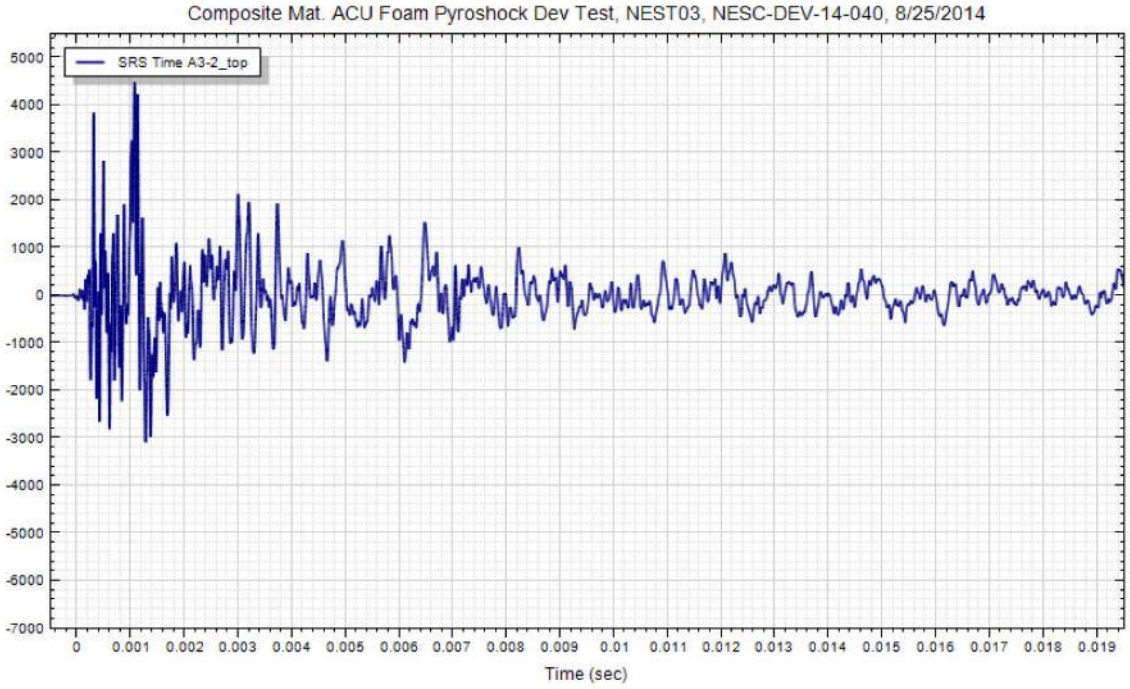
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A1-1_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

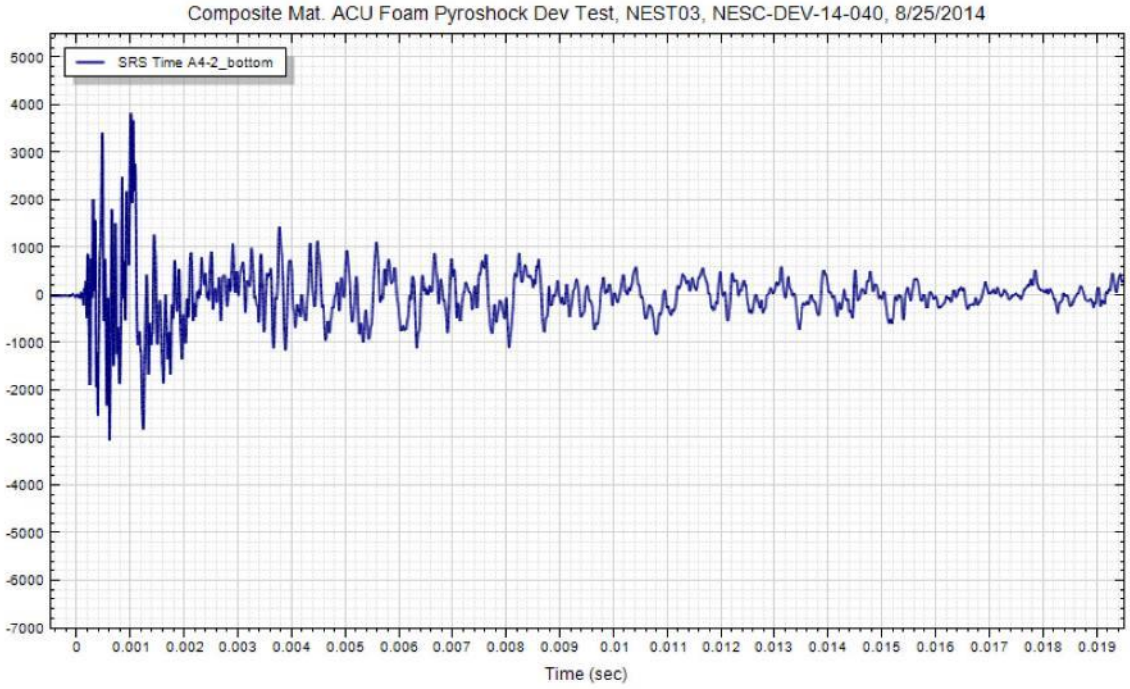
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A2-1_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

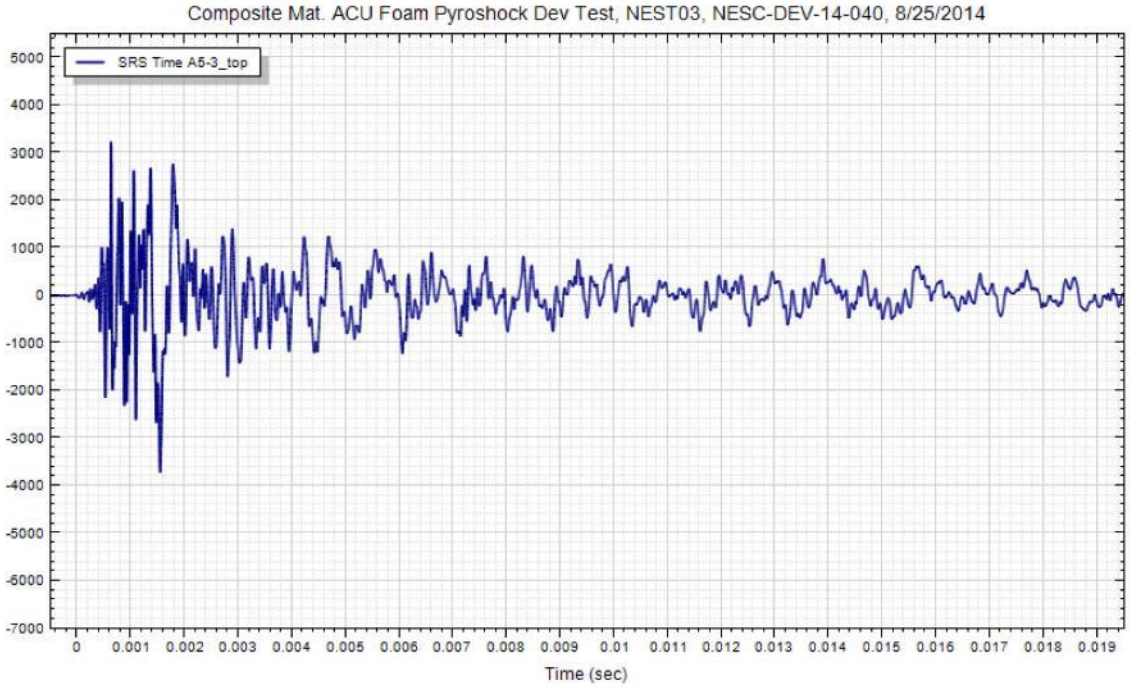
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A3-2_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

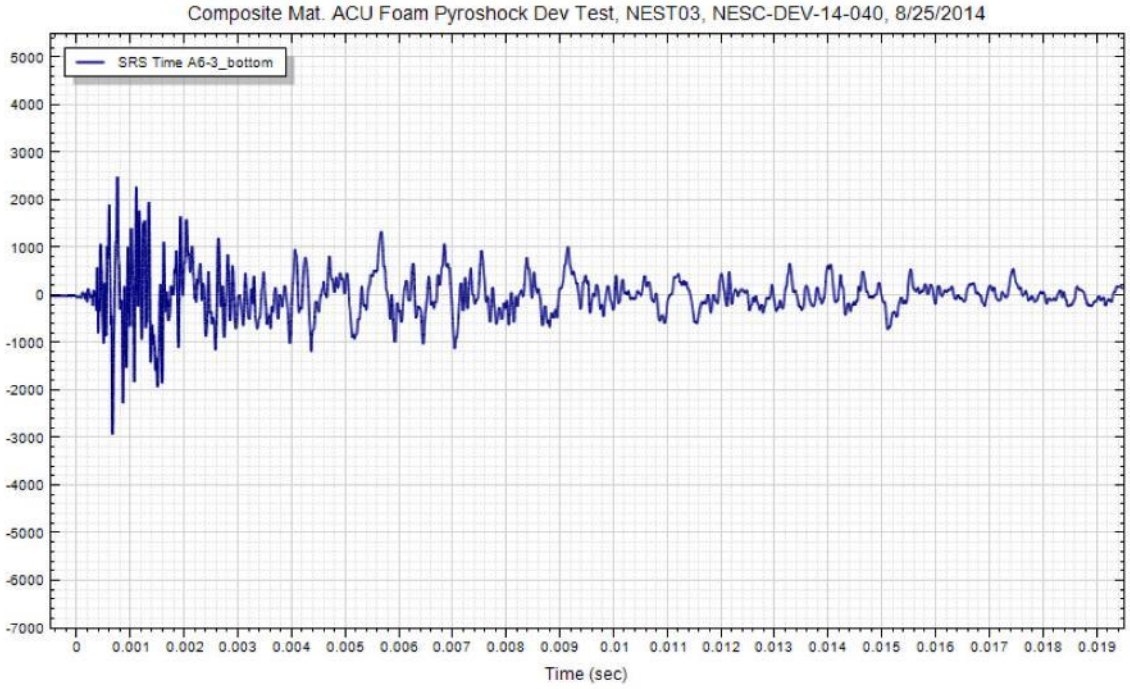
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A4-2_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

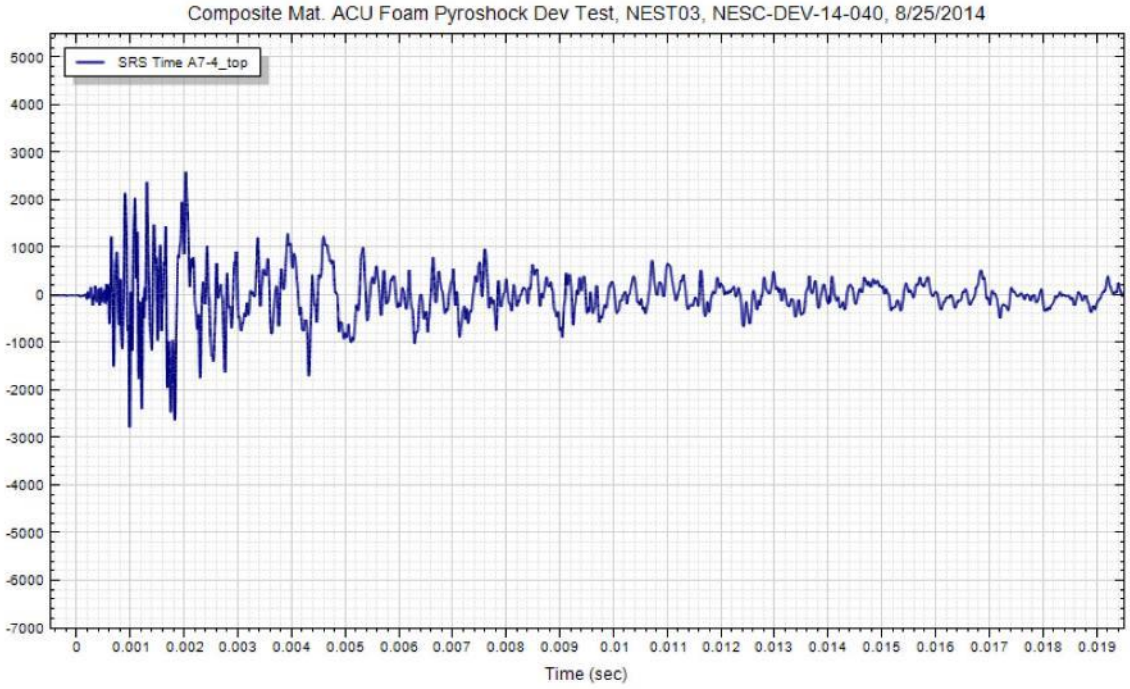
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A5-3_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

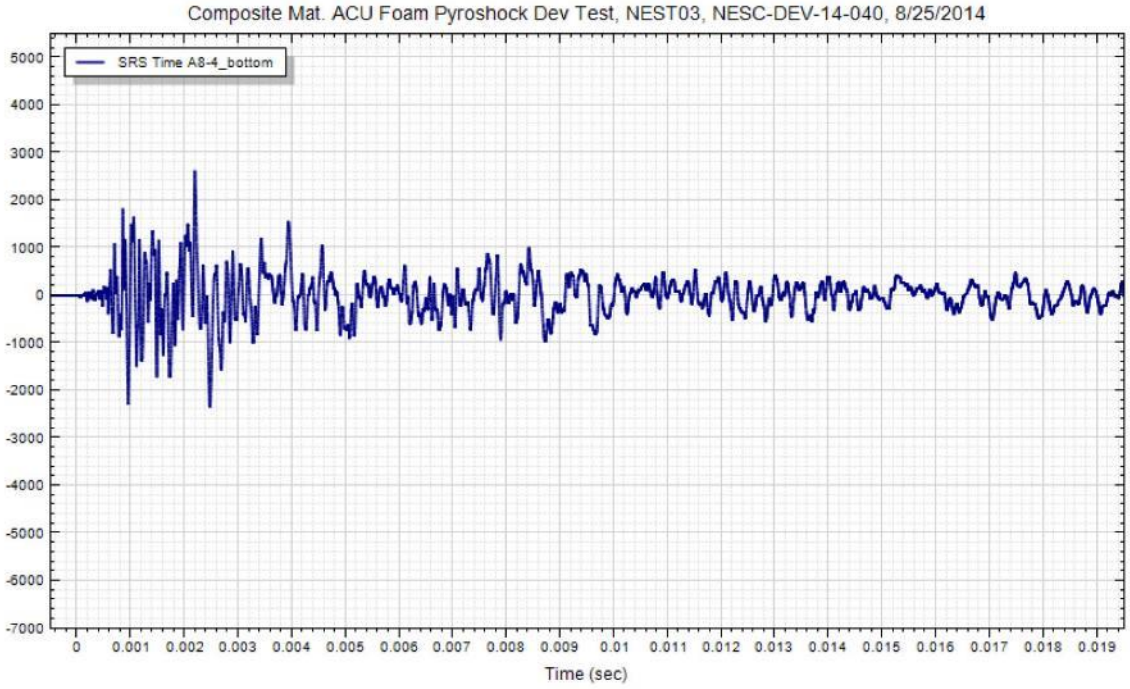
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A6-3_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

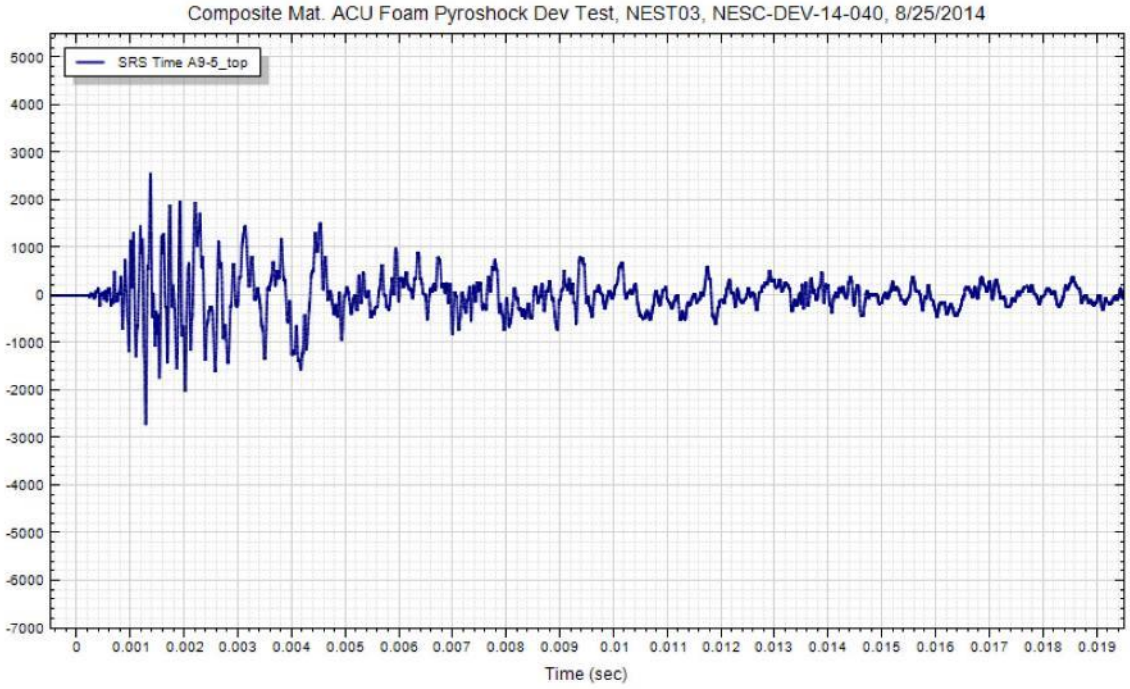
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A7-4_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

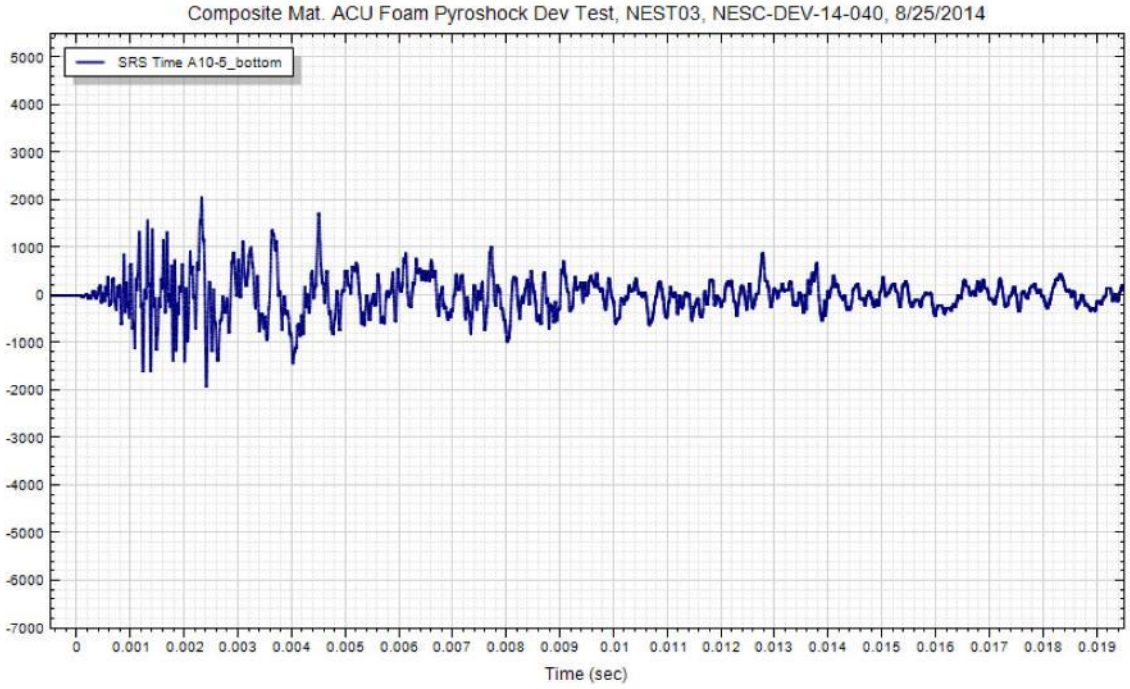
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A8-4_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

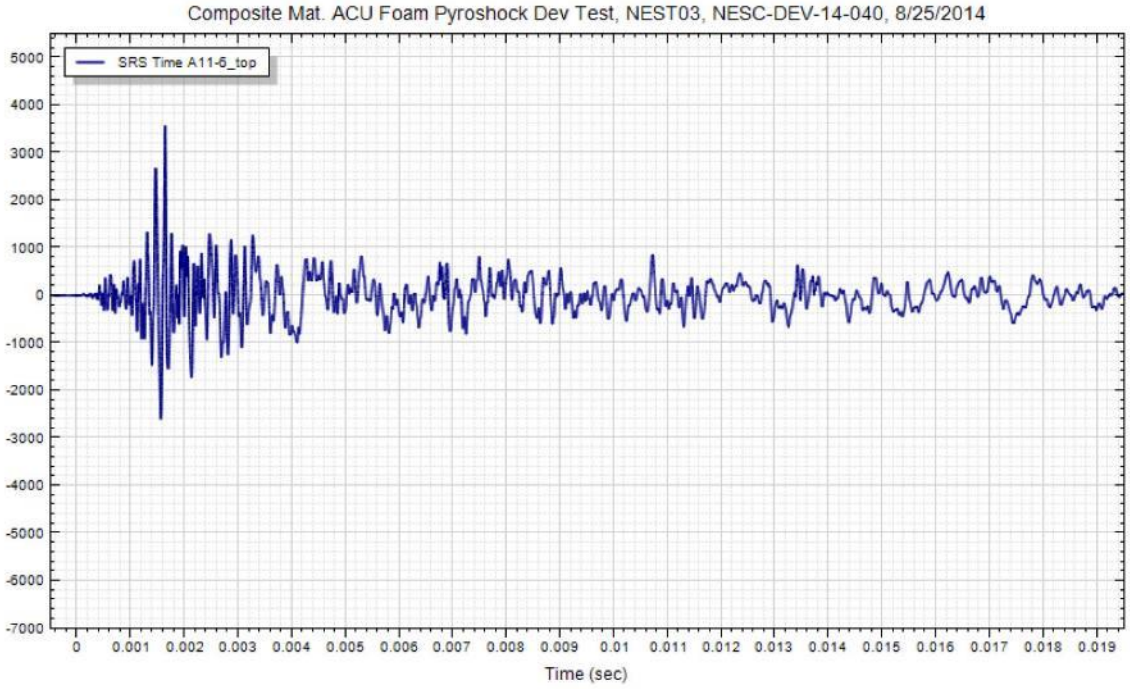
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A9-5_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

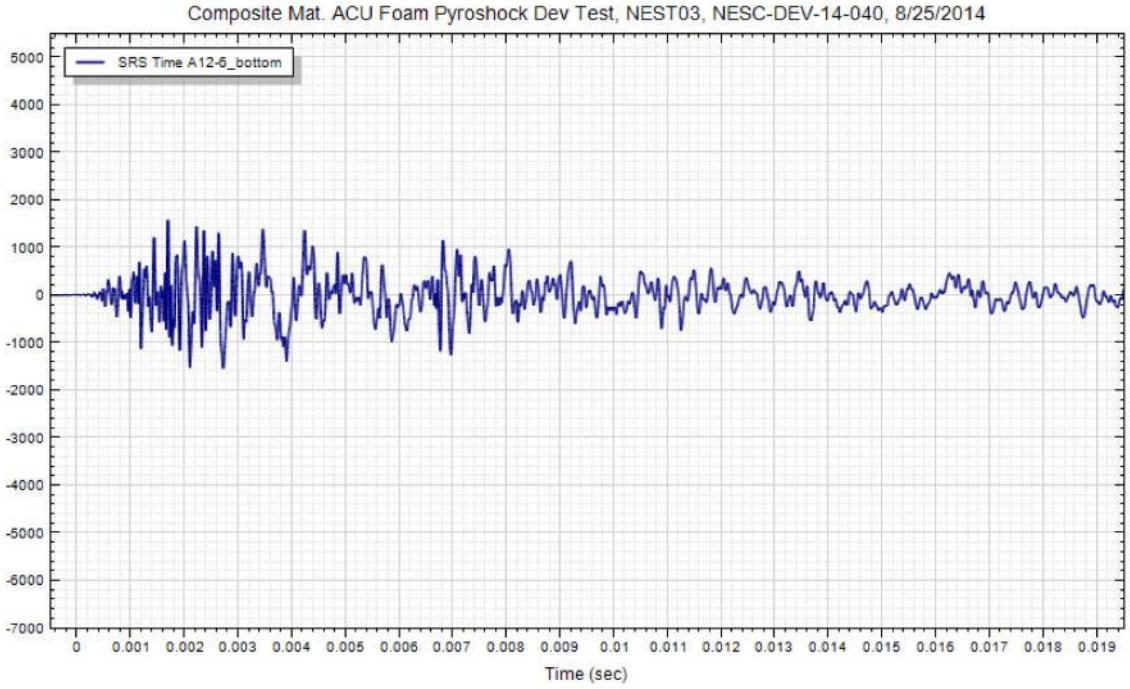
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A10-5_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

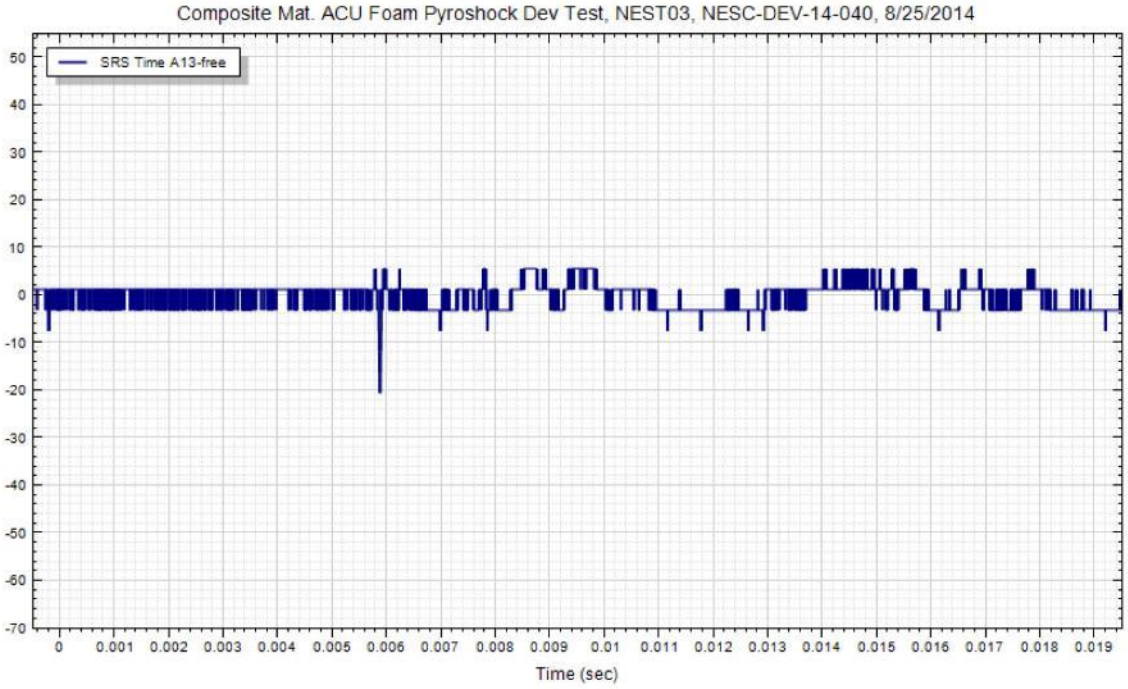
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A11-6_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A12-6_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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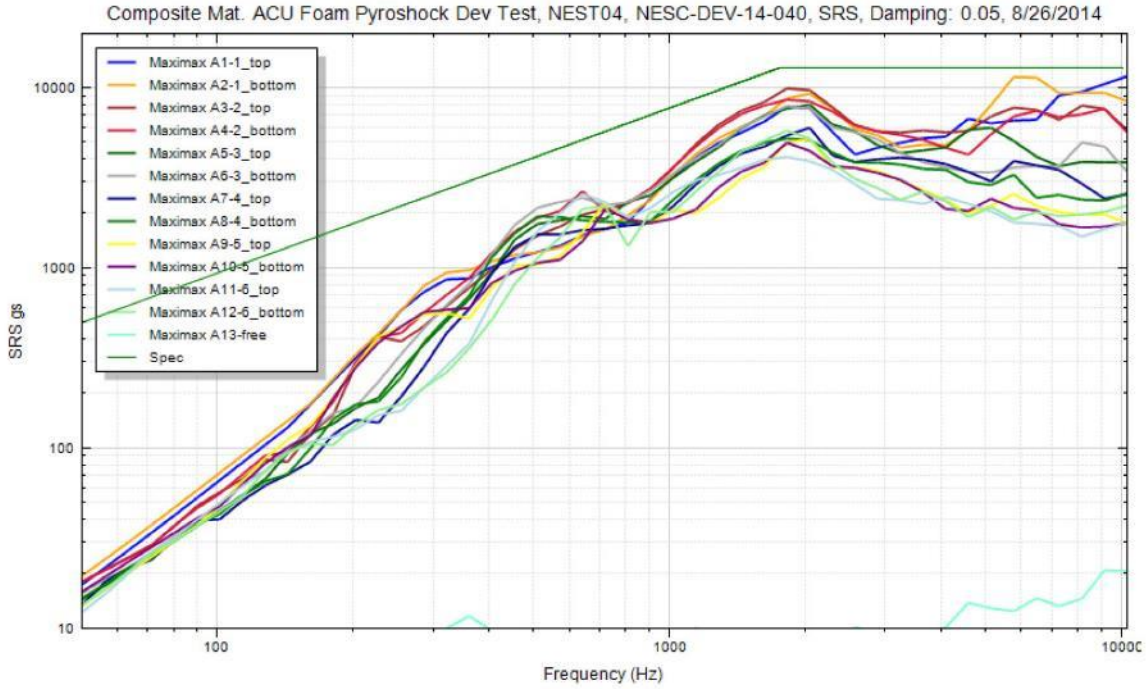

Composite Mat. ACU Foam Pyroshock Dev Test, NEST03, NESC-DEV-14-040, 8/25/2014
SRS Time A13-free
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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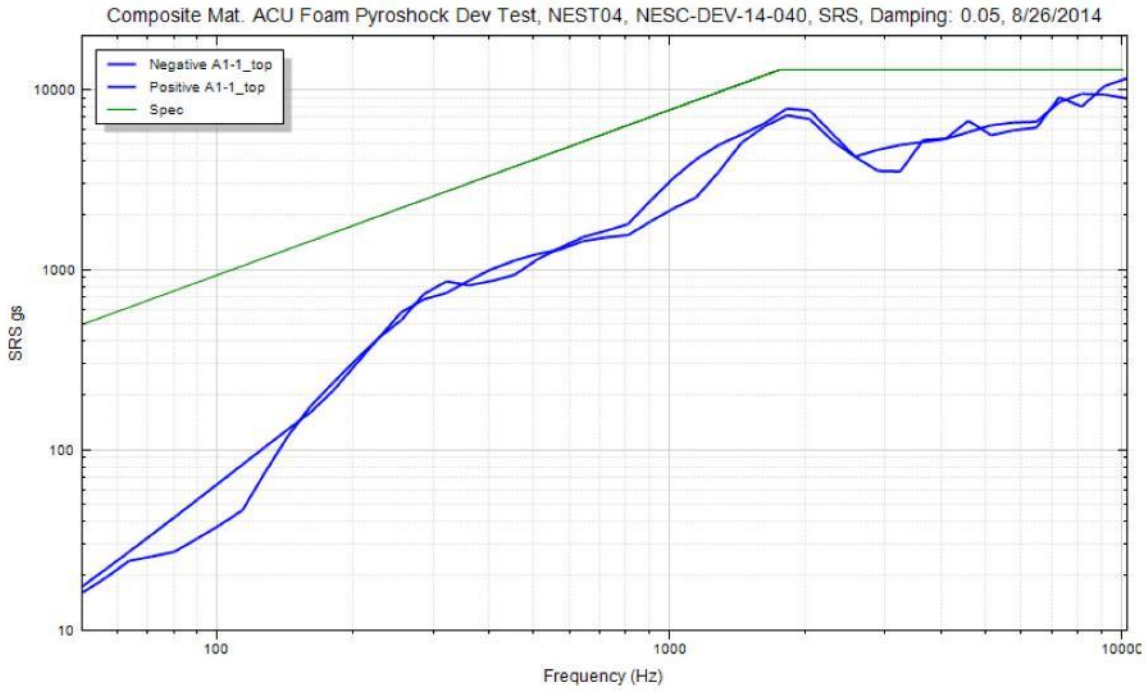
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #4 Accelerometer Data
Panel 0332A018

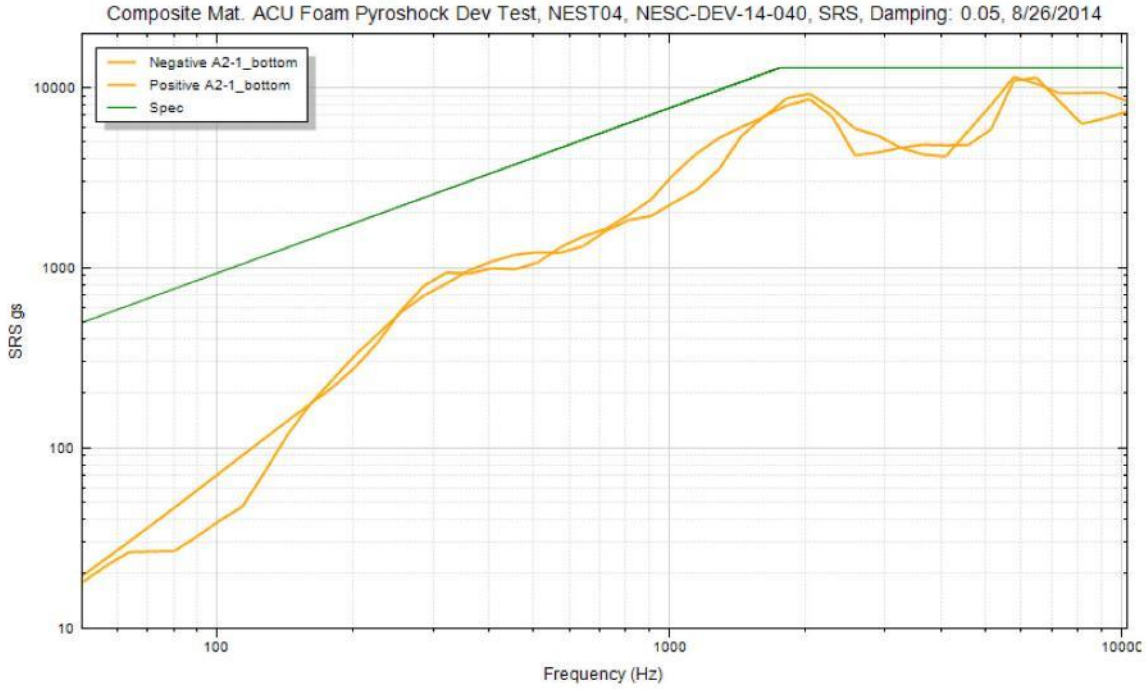
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
Frequency (Hz)

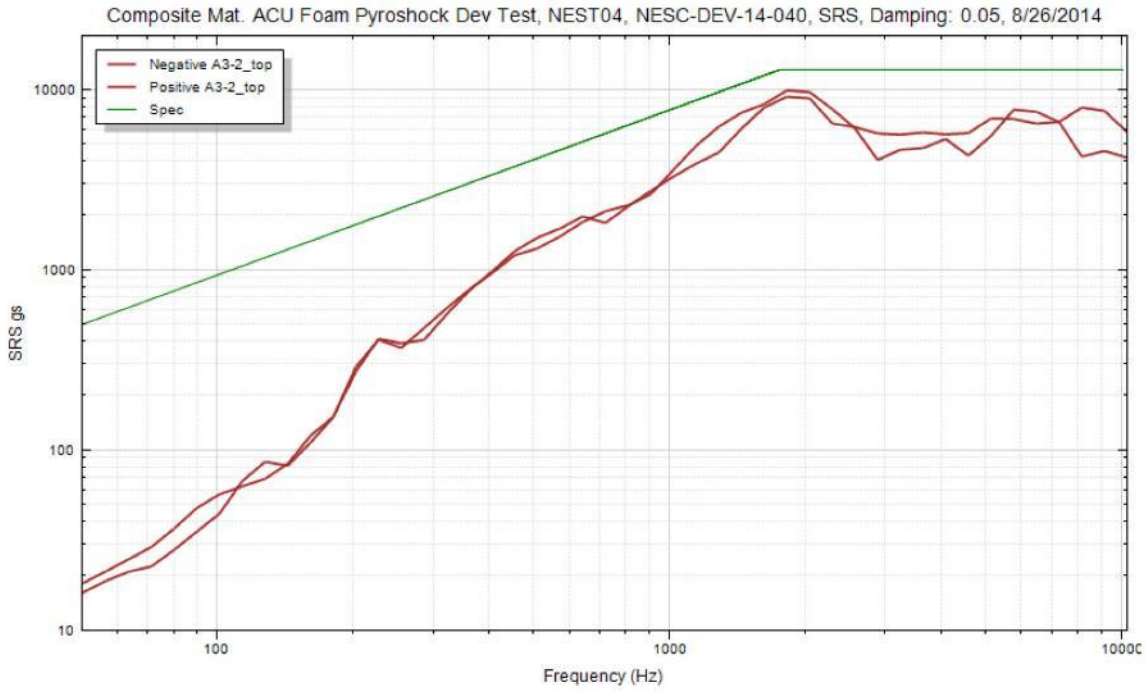
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

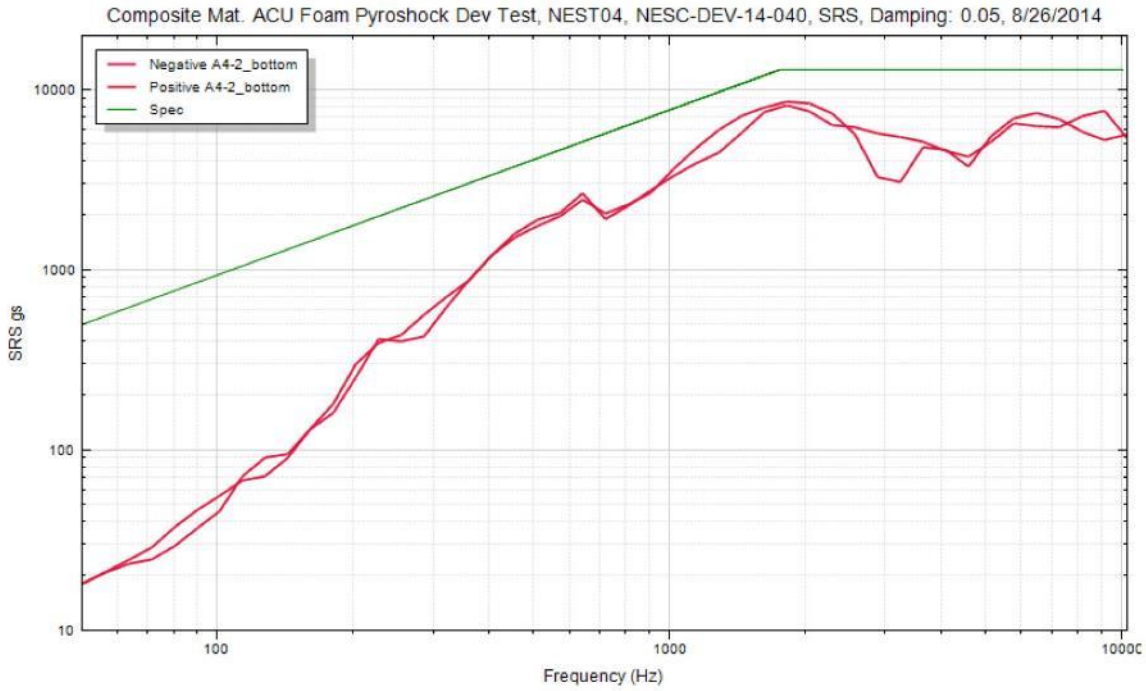
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

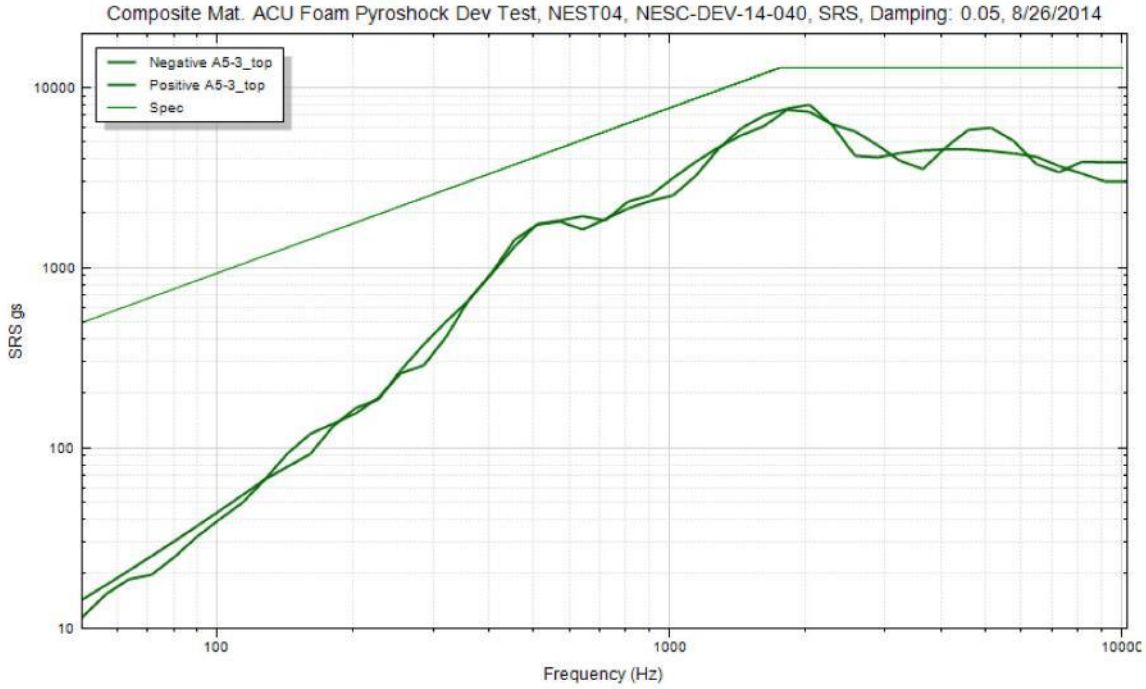
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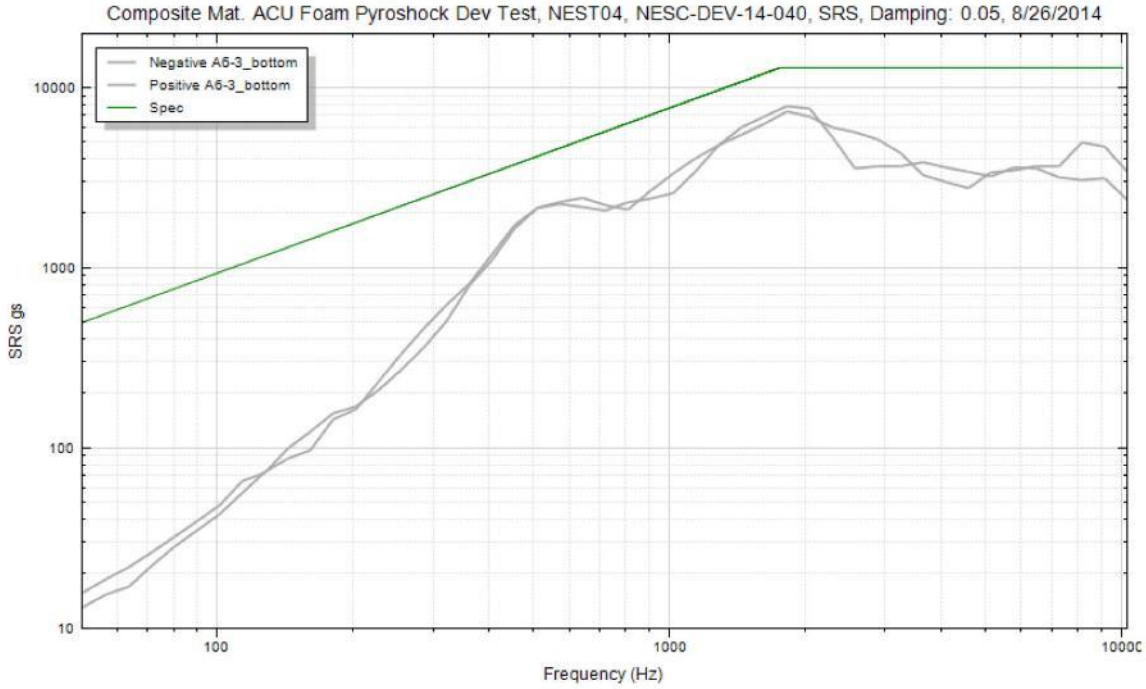

Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

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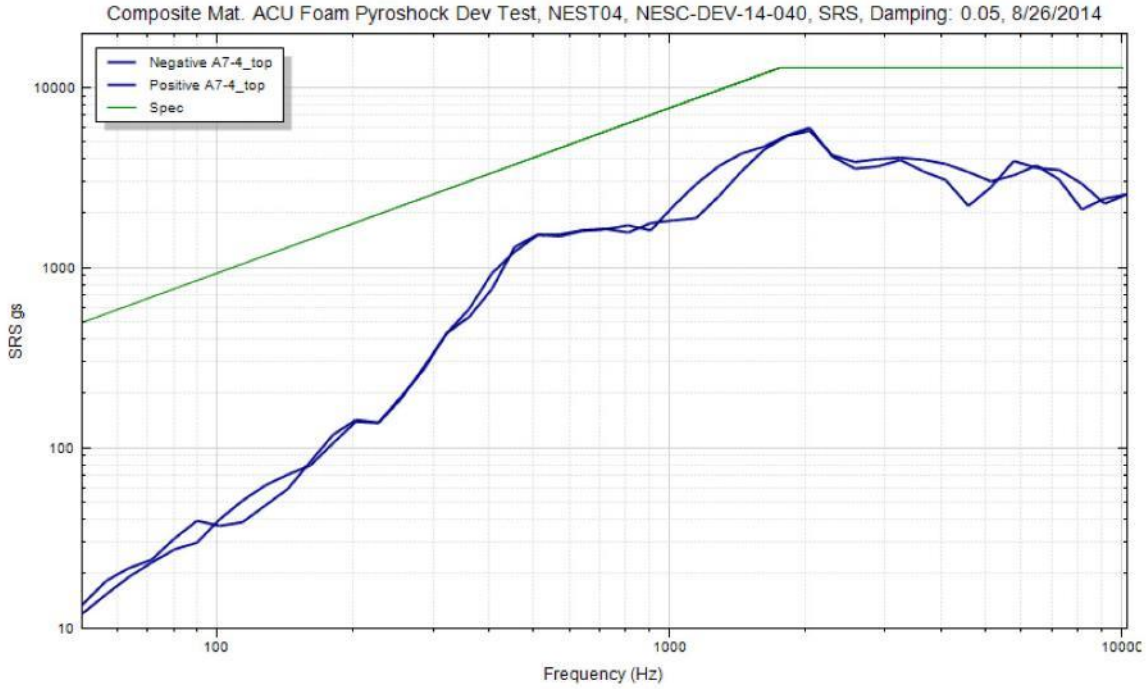

Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

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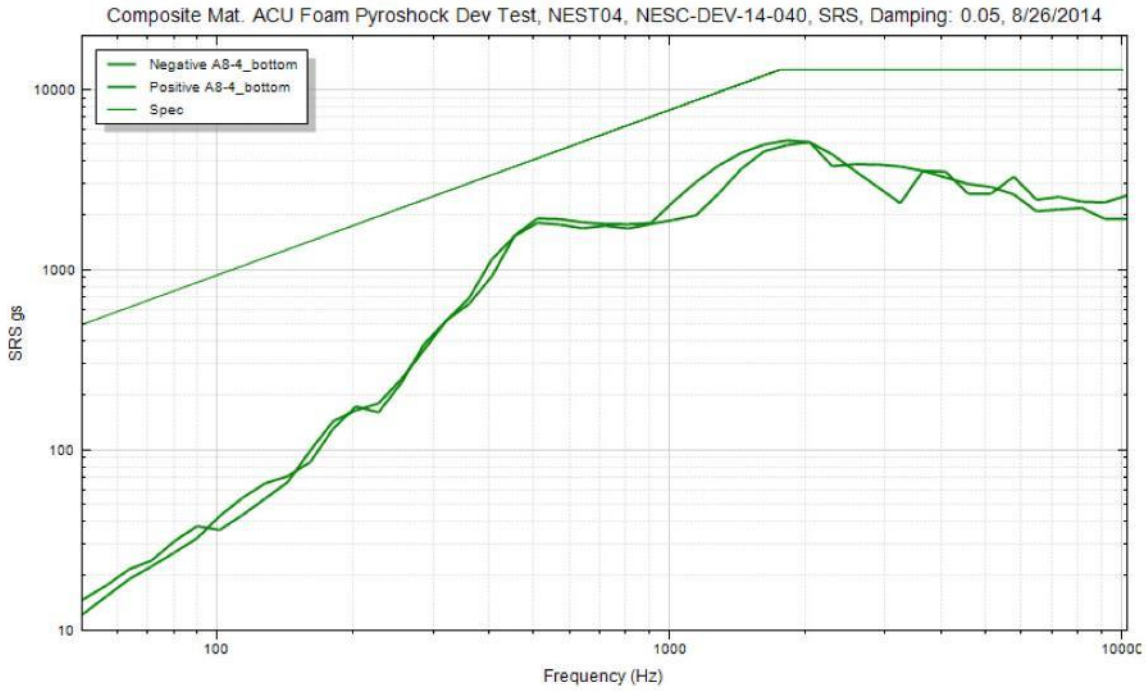

Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)


Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

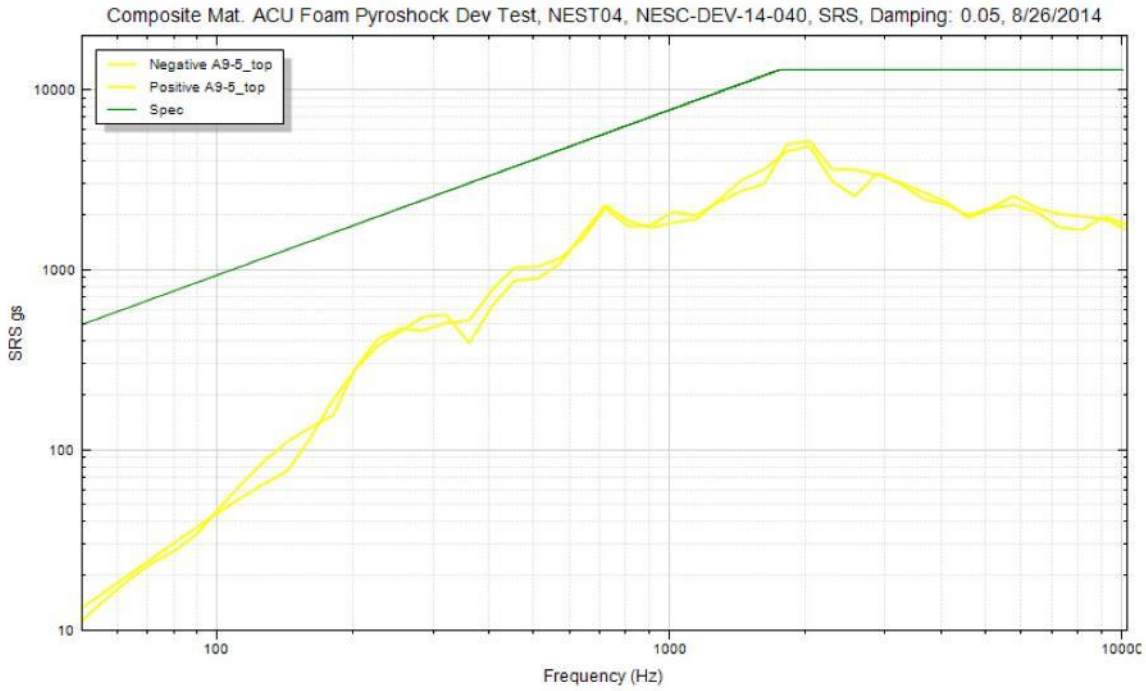
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

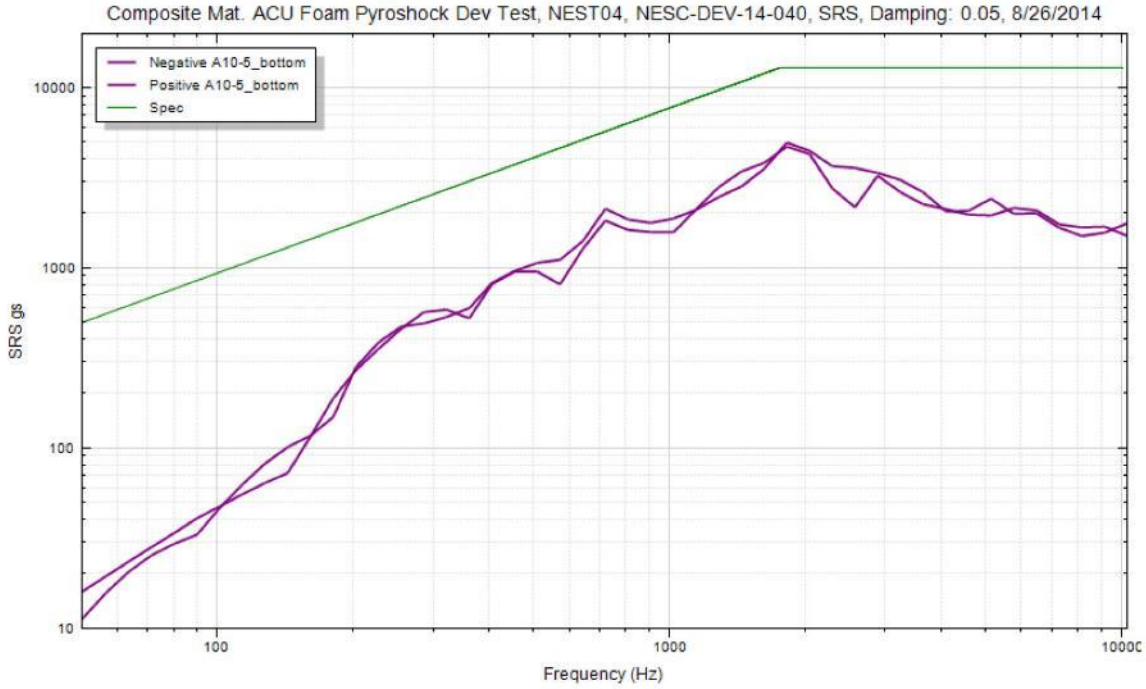
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

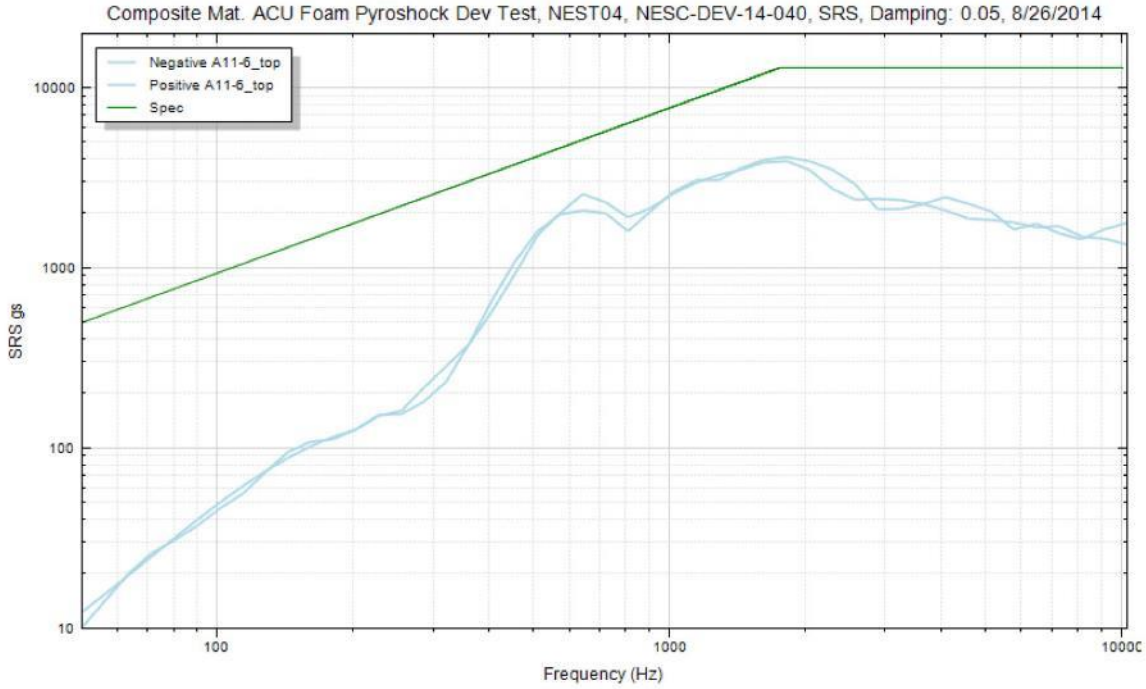
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
Frequency (Hz)

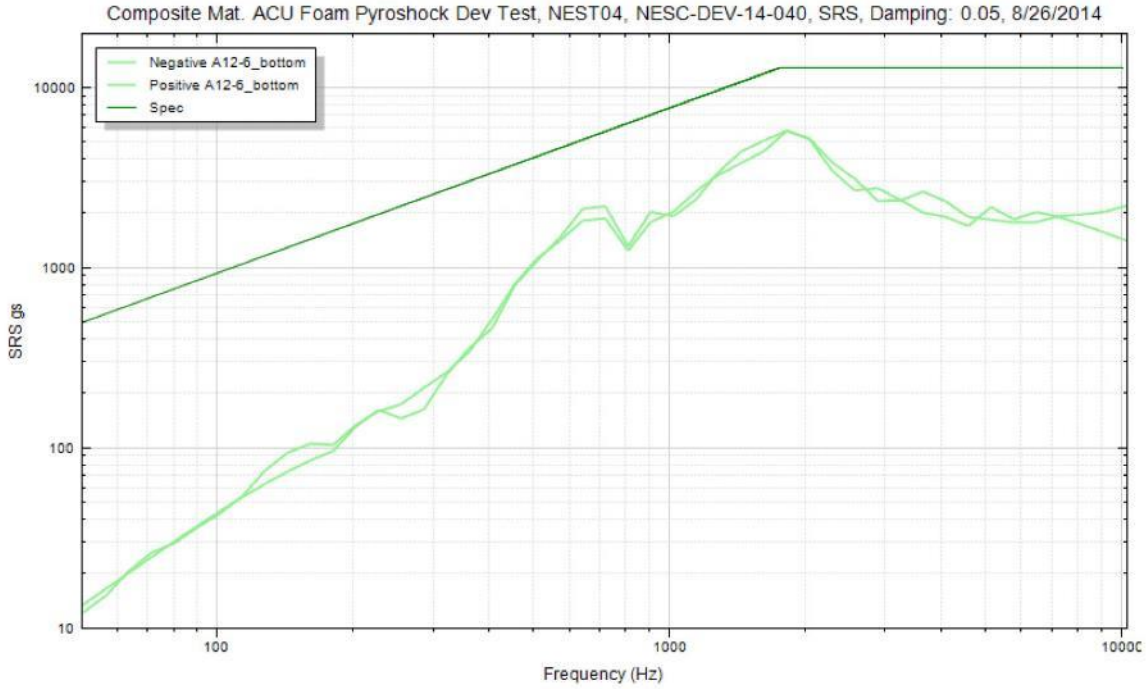
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

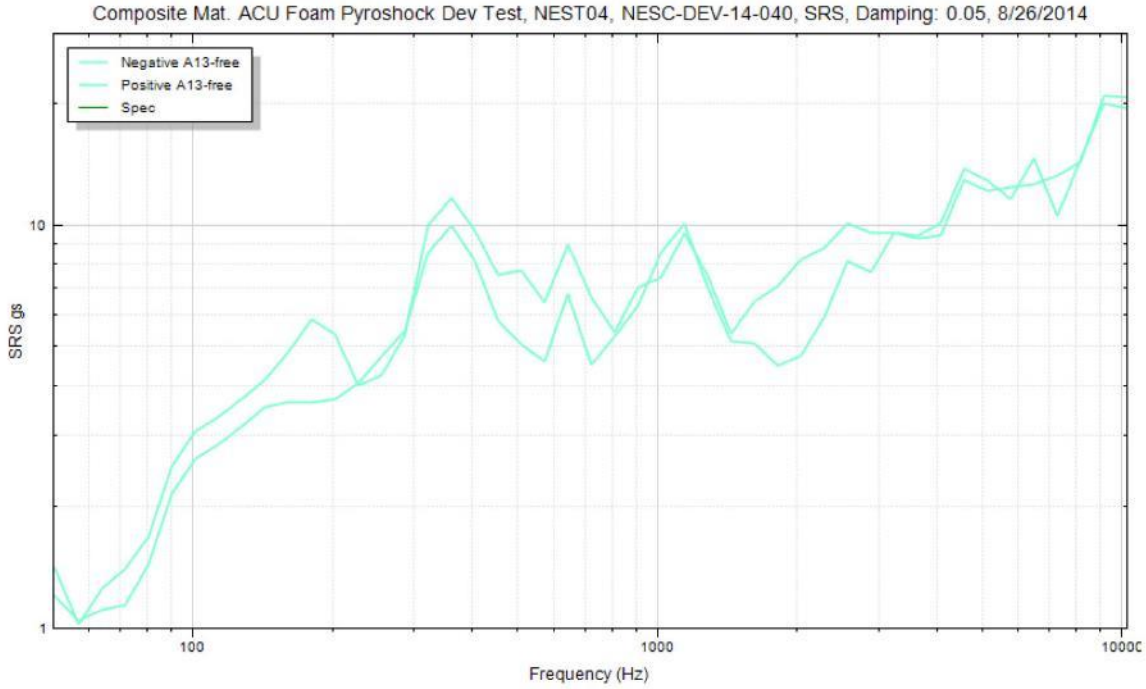
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

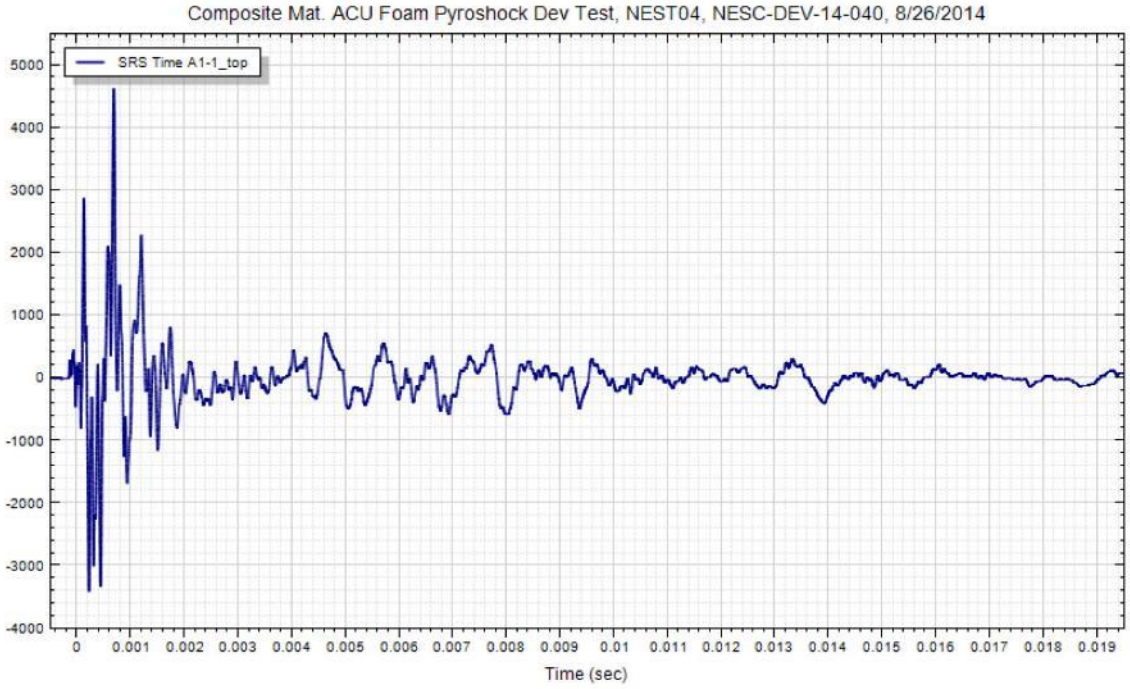
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

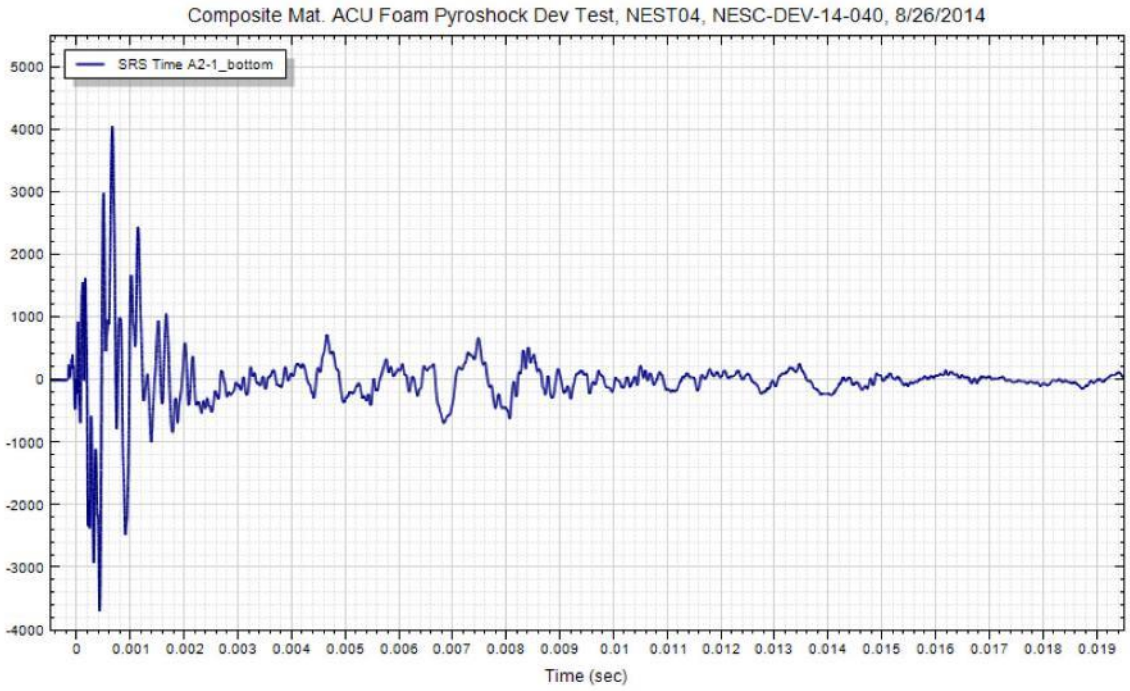
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A13-free
Positive A13-free
Spec
SRS gs
10
1
100
1000
Frequency (Hz)

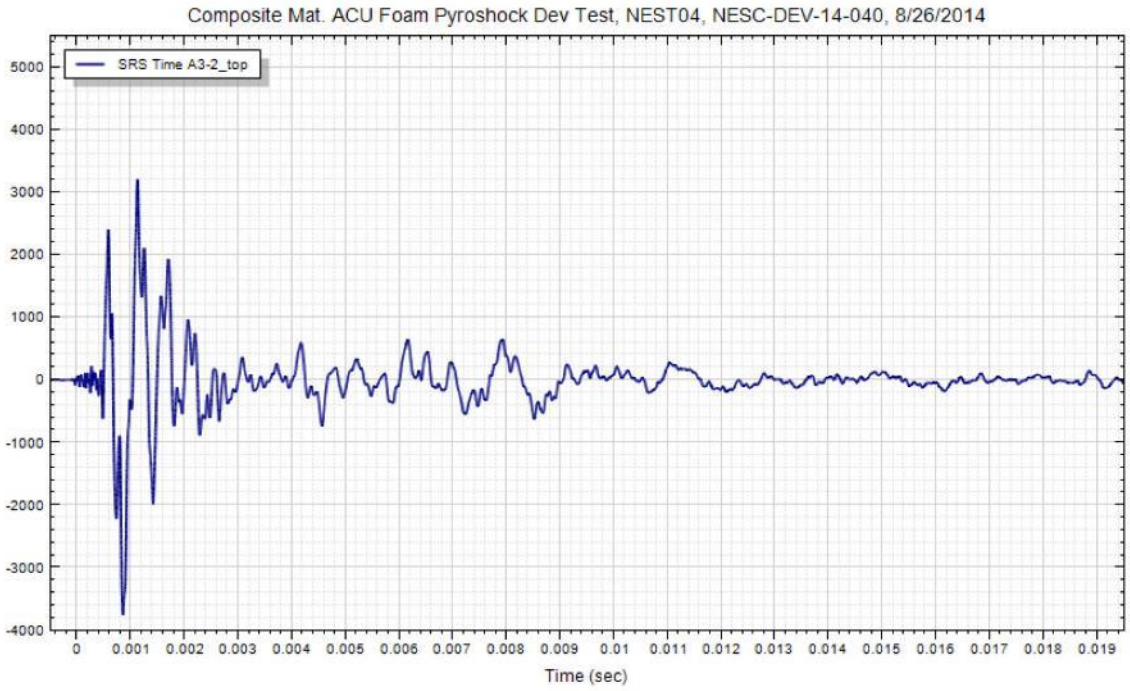
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A1-1_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

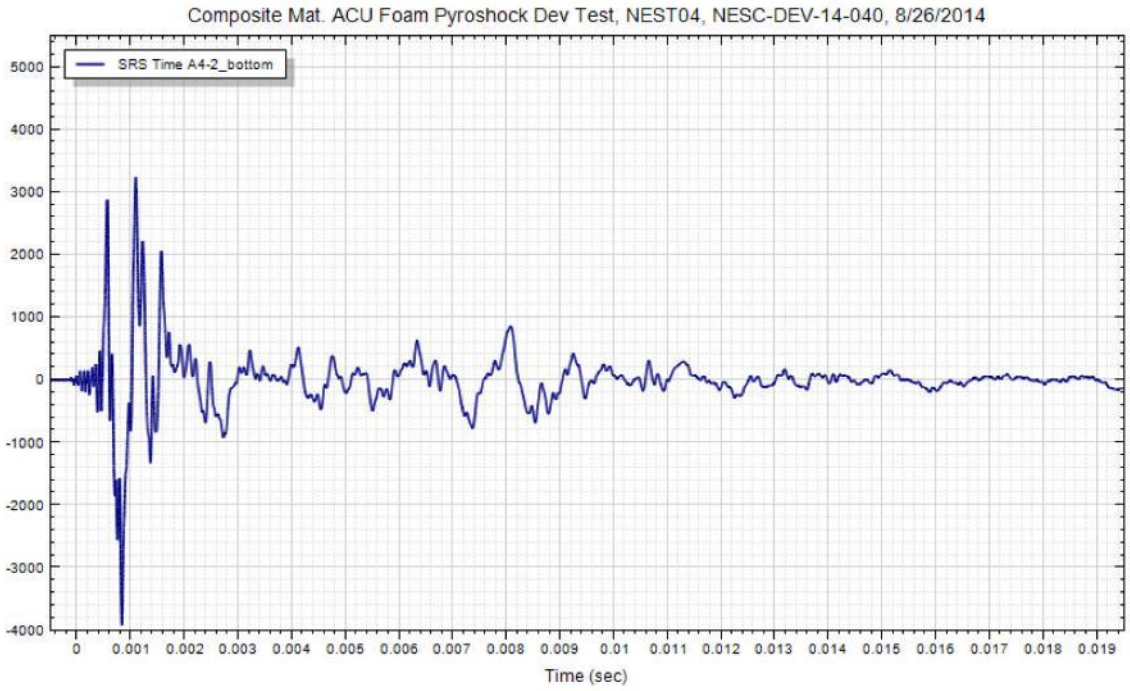
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A2-1_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

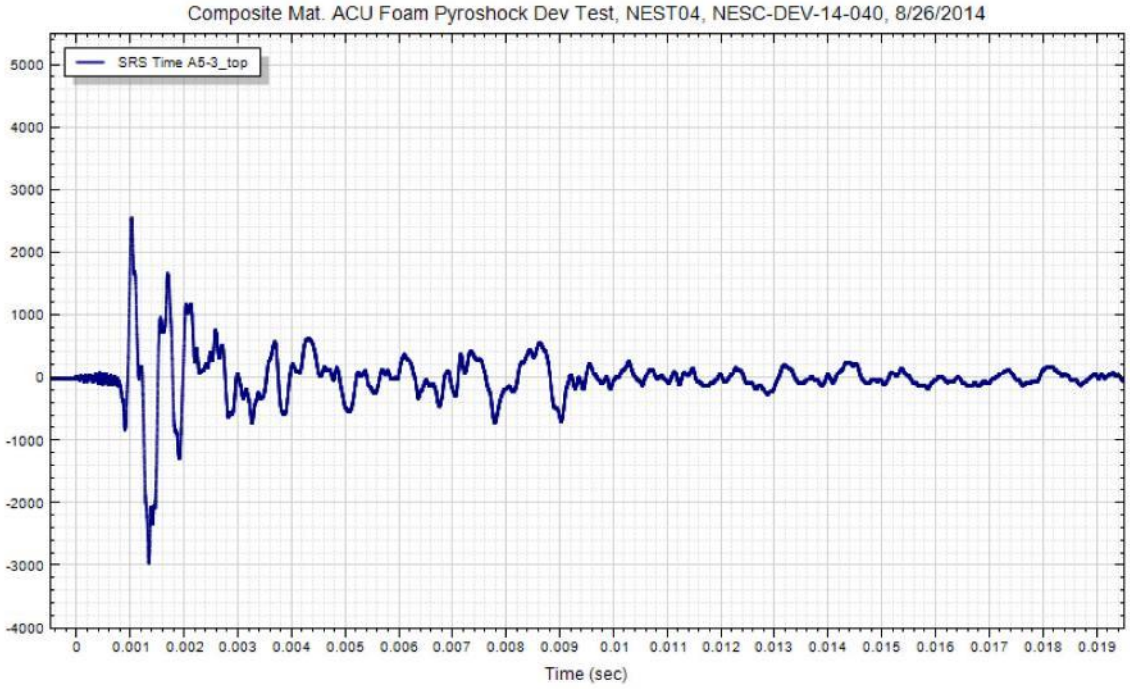
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A3-2_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

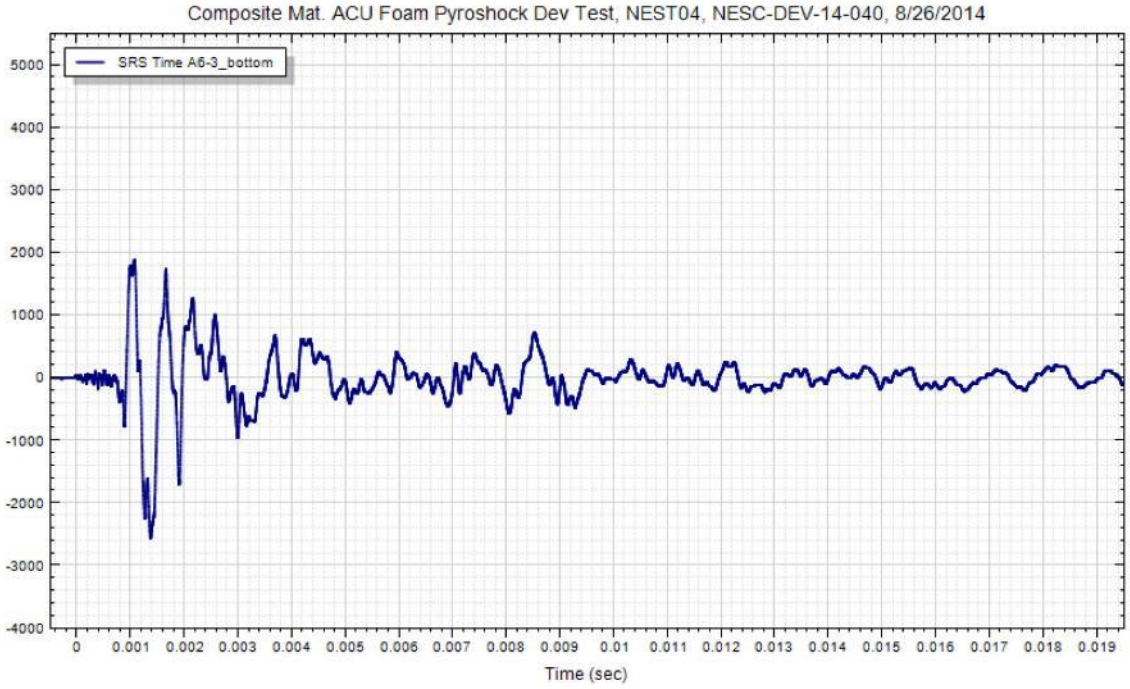
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A4-2_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

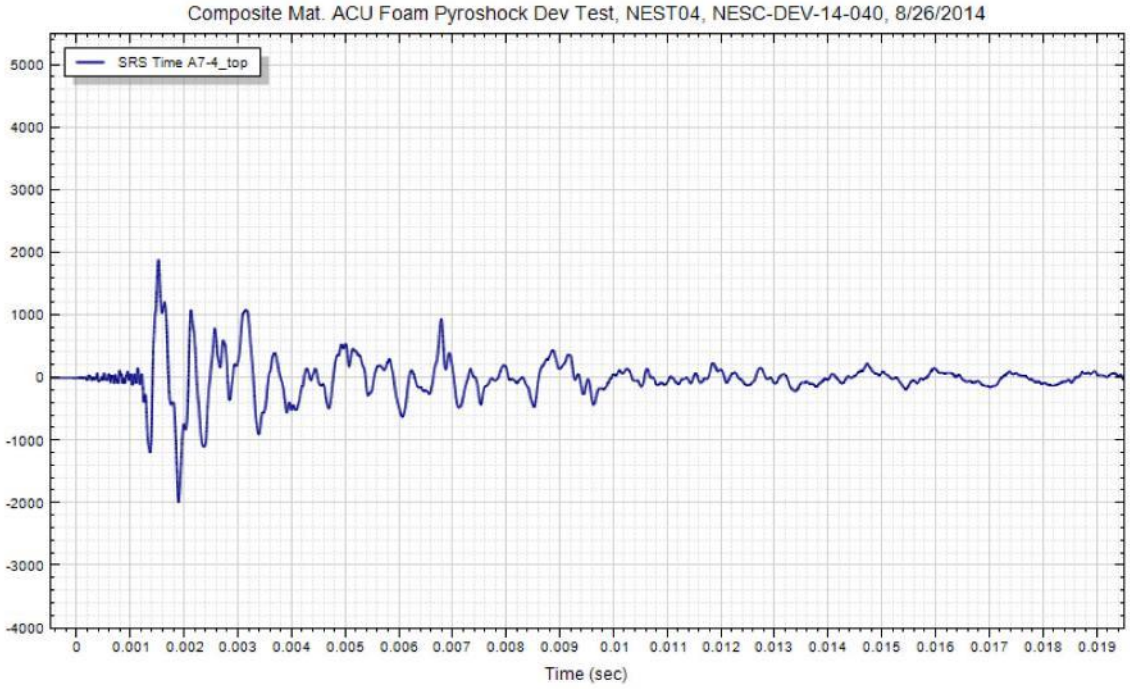
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A5-3_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

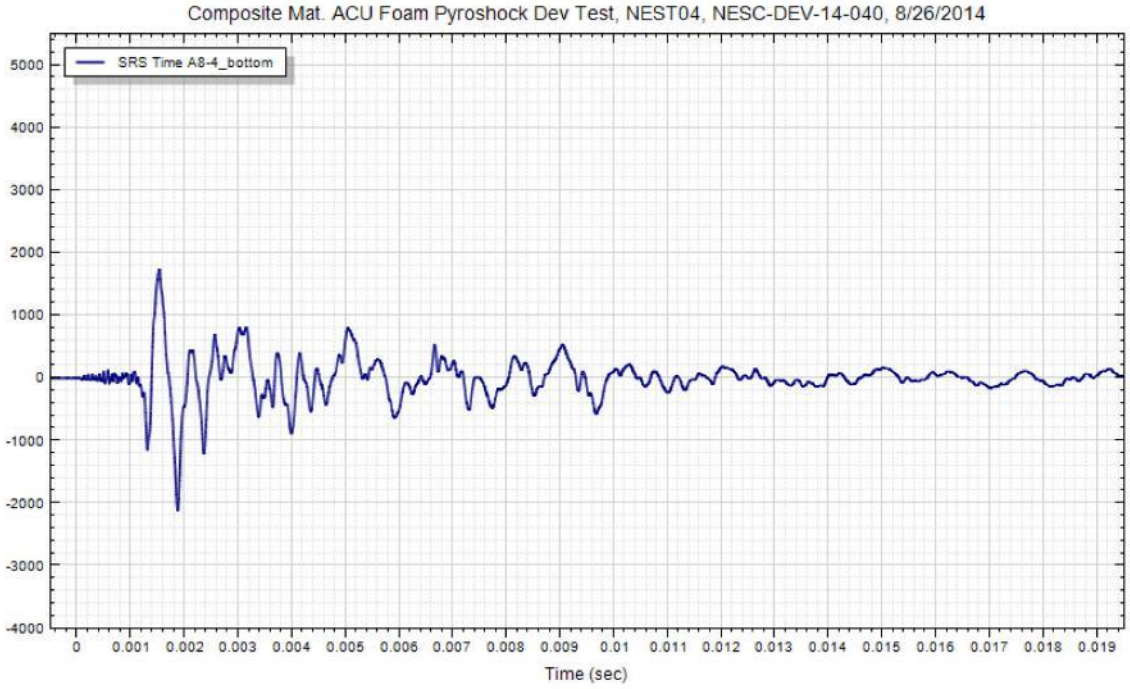
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A6-3_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

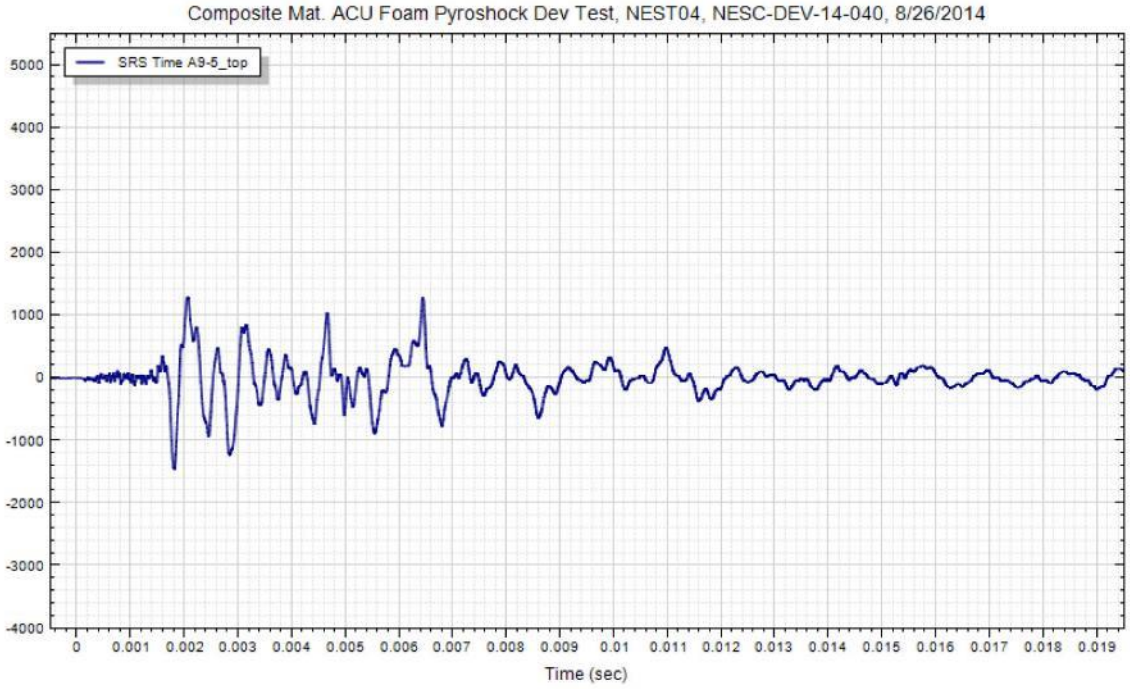
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A7-4_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

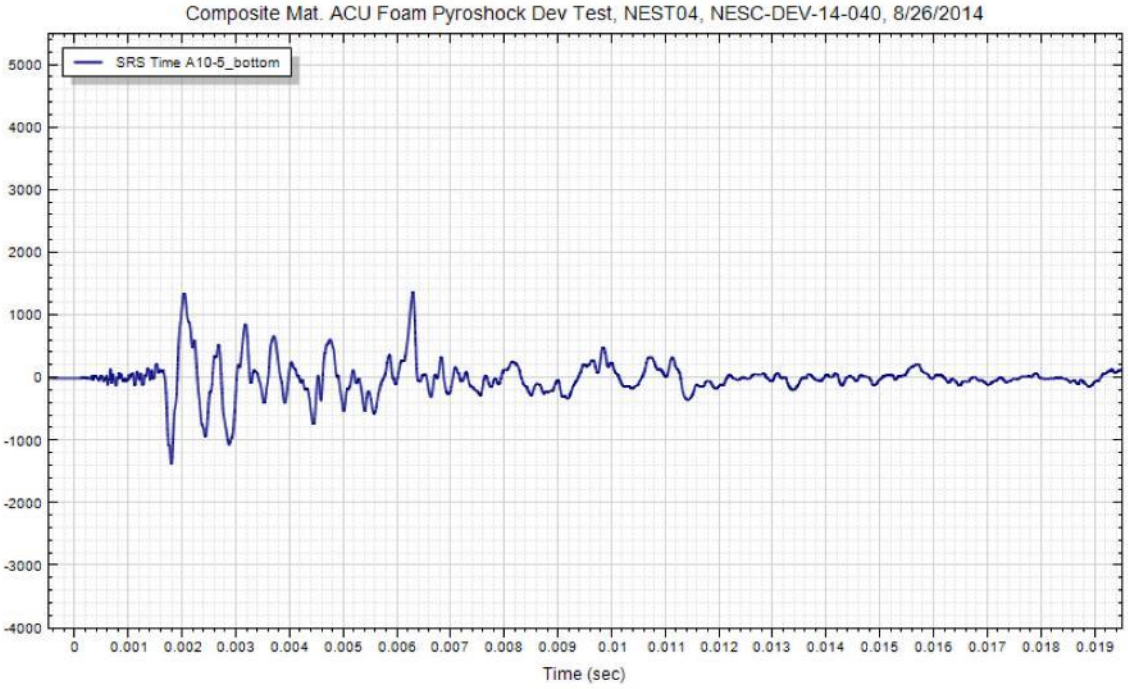
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A8-4_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

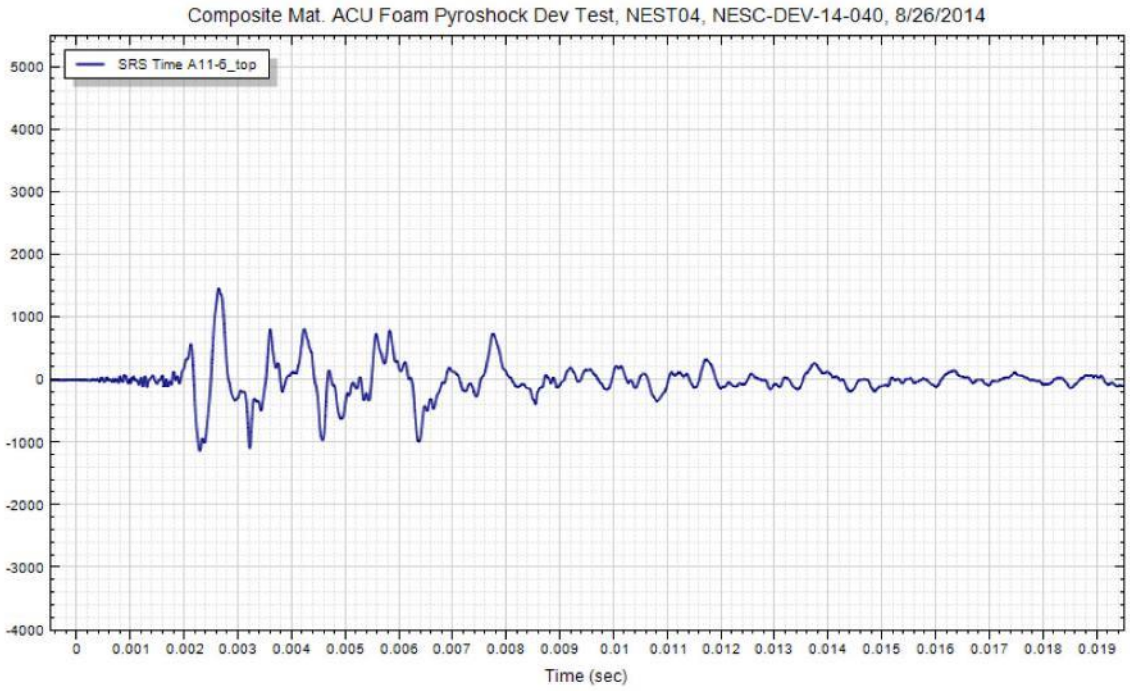
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A9-5_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

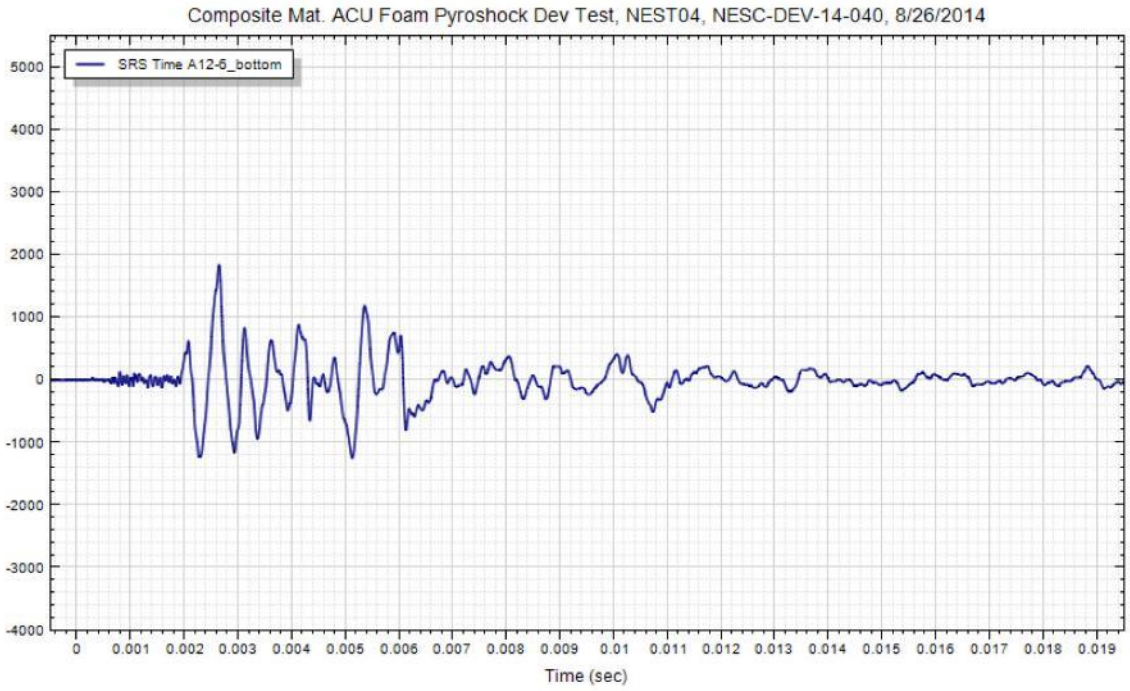
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A10-5_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

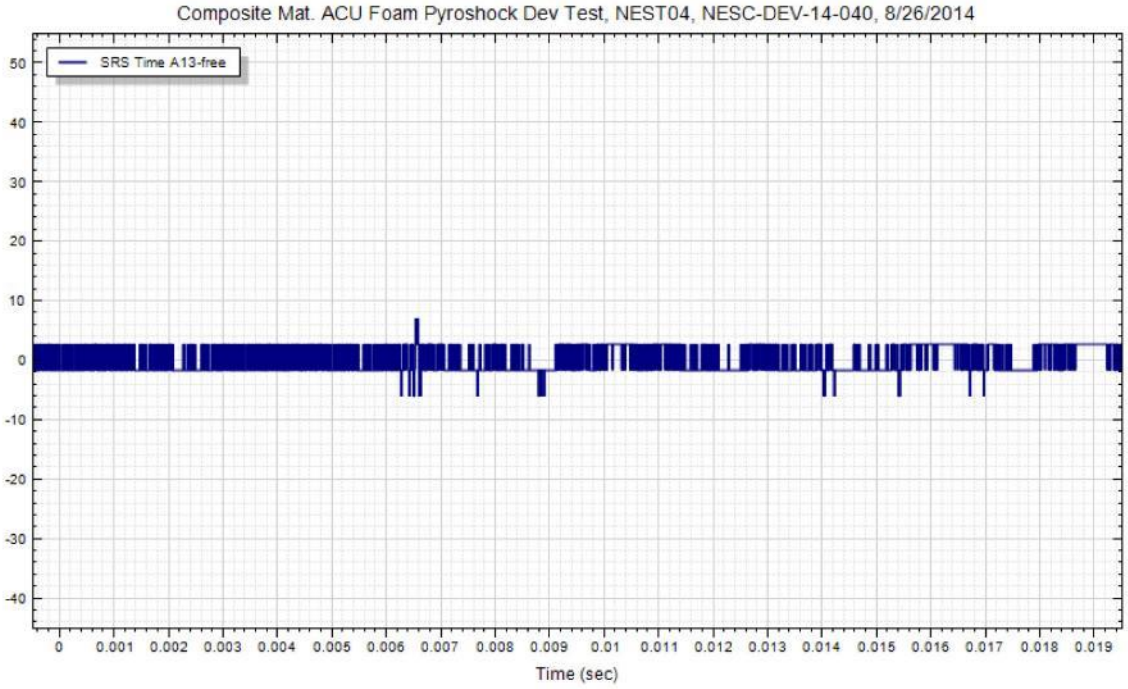
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A11-6_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A12-6_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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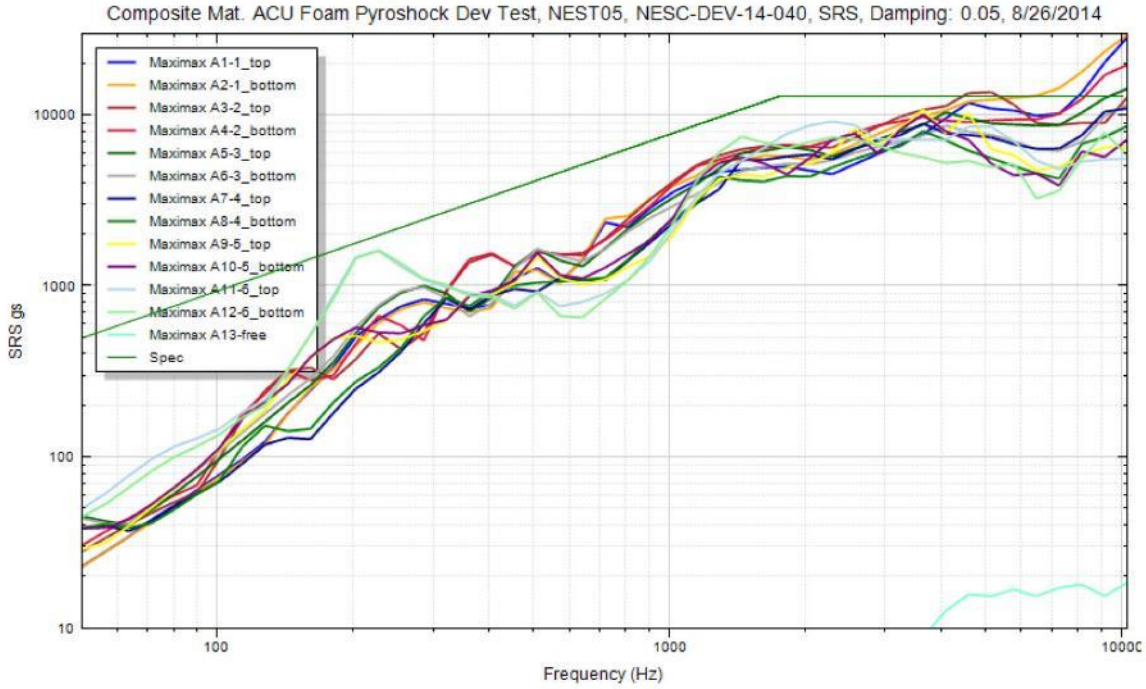

Composite Mat. ACU Foam Pyroshock Dev Test, NEST04, NESC-DEV-14-040, 8/26/2014
SRS Time A13-free
50
40
30
20
10
0
-10
-20
-30
-40
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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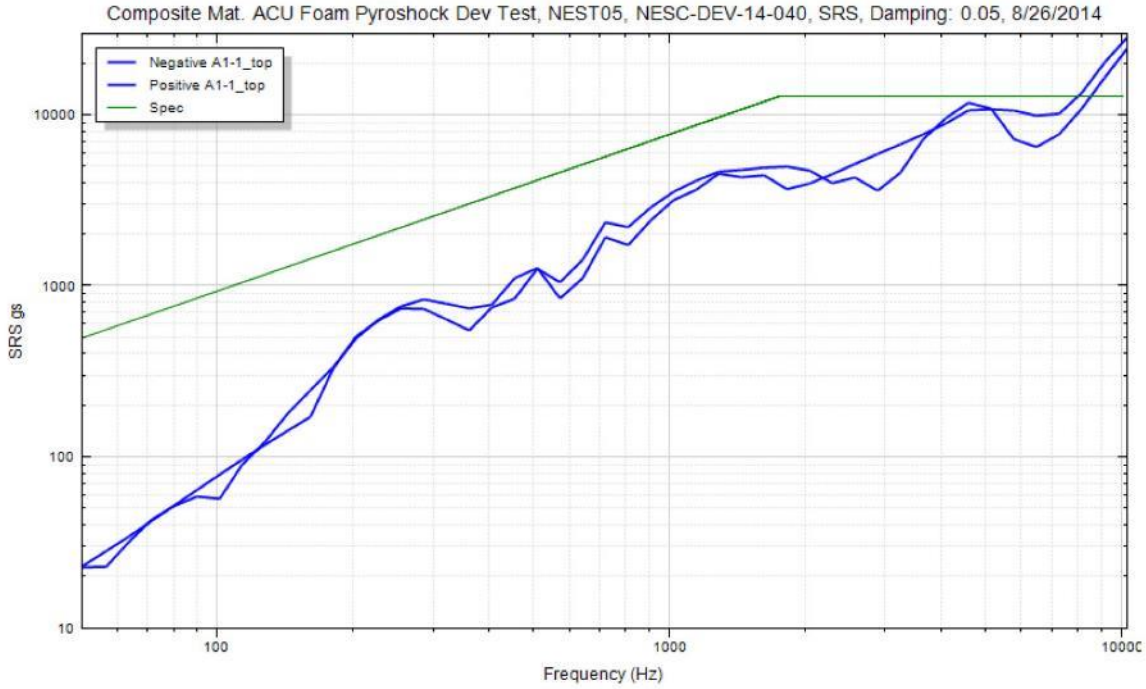
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #5 Accelerometer Data
Panel 0332A011

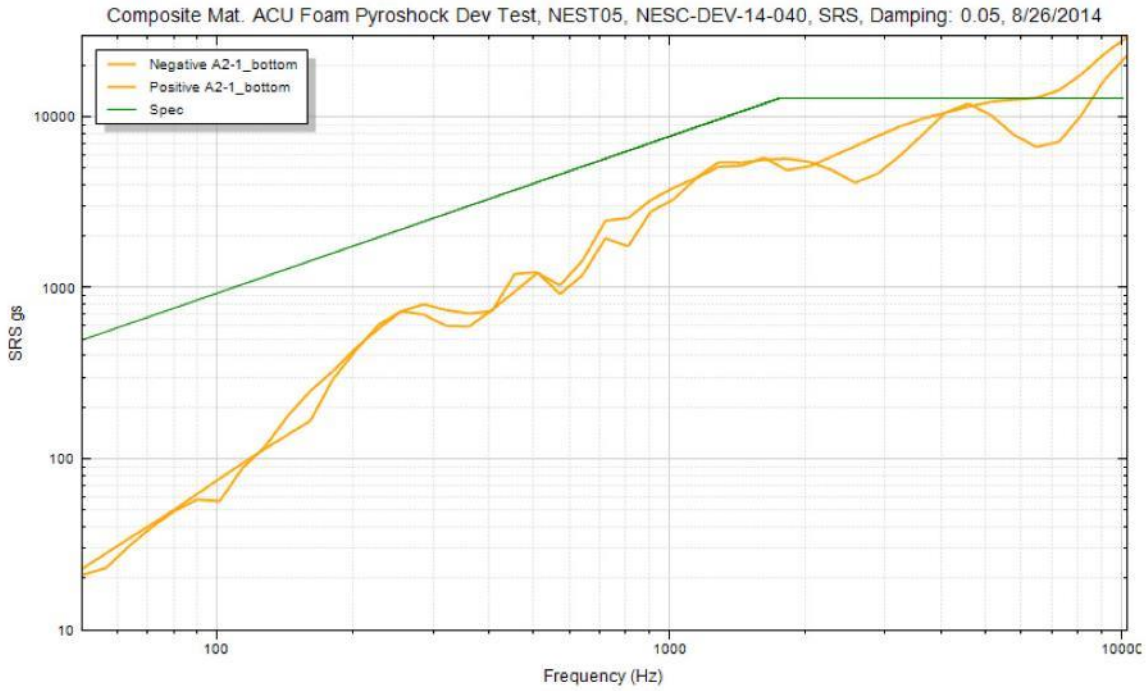
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

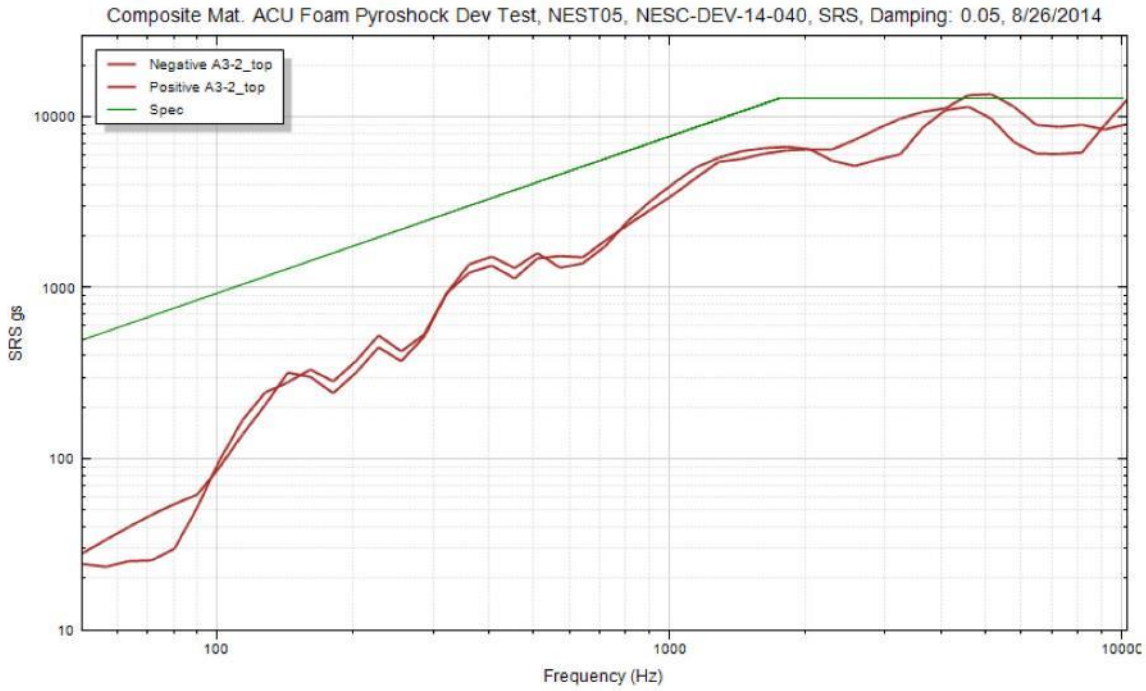
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

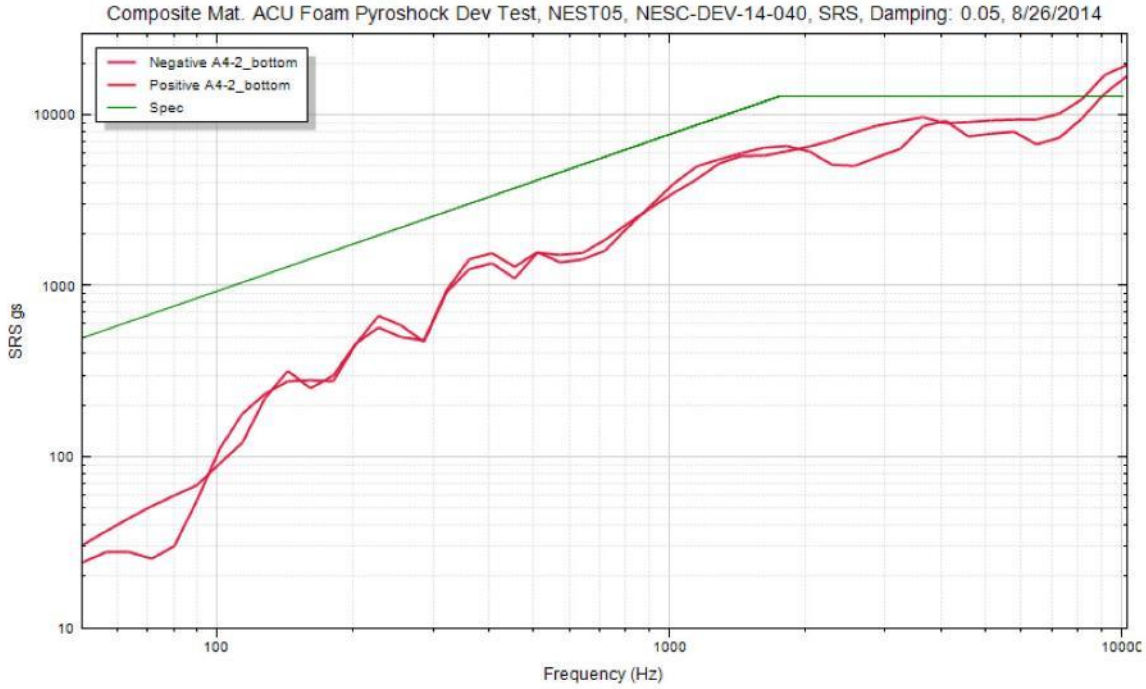
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
SRS gs
10000
1000
100
10
100
1000
Frequency (Hz)

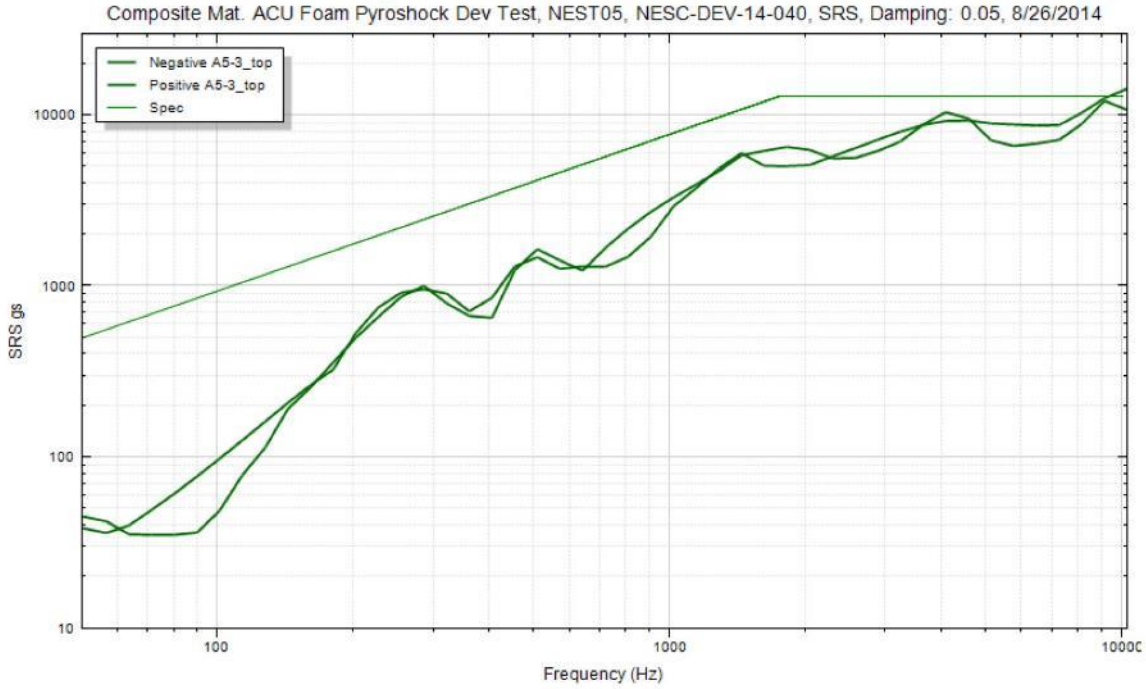
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A3-2_top
Positive A3-2_top
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

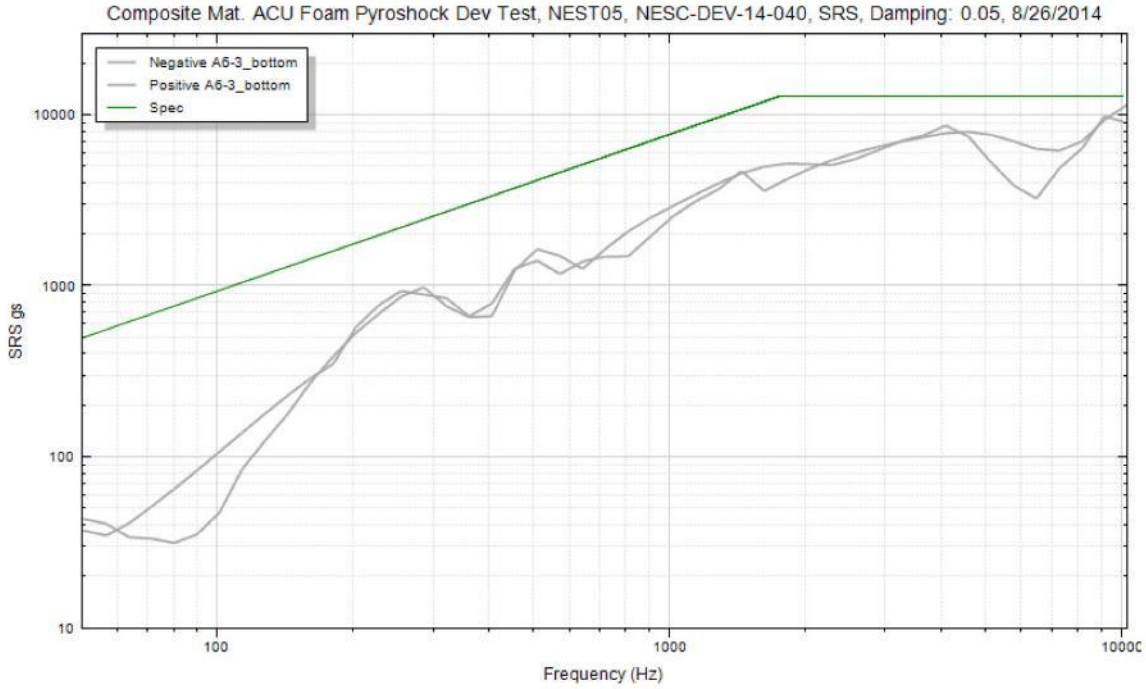
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

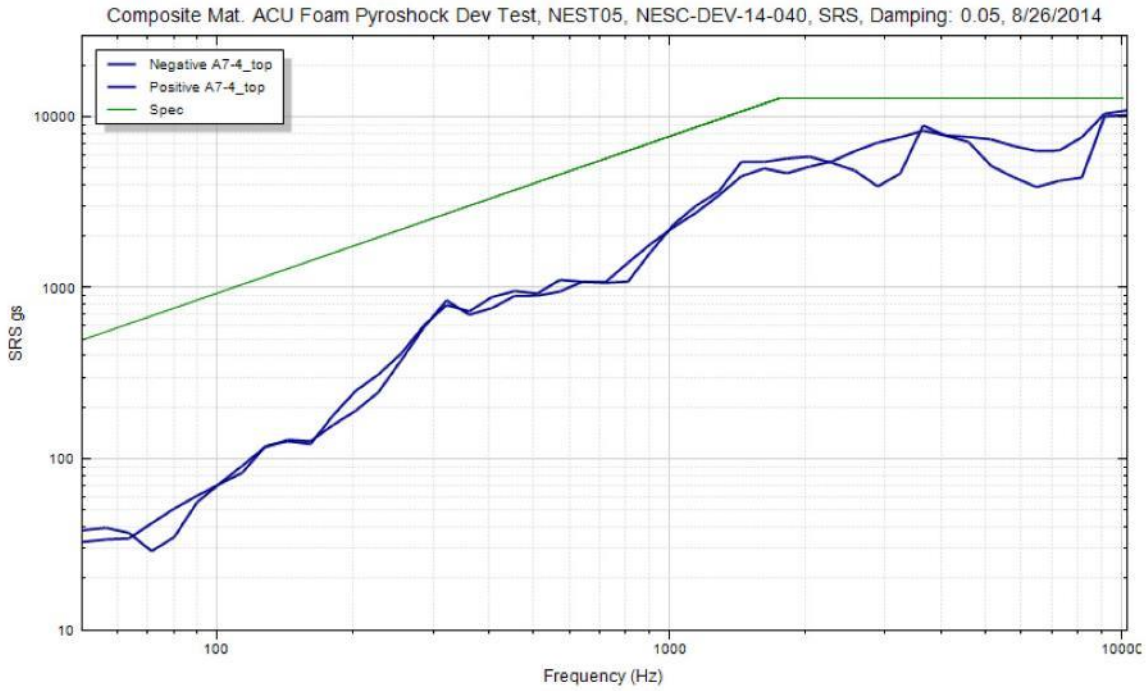
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

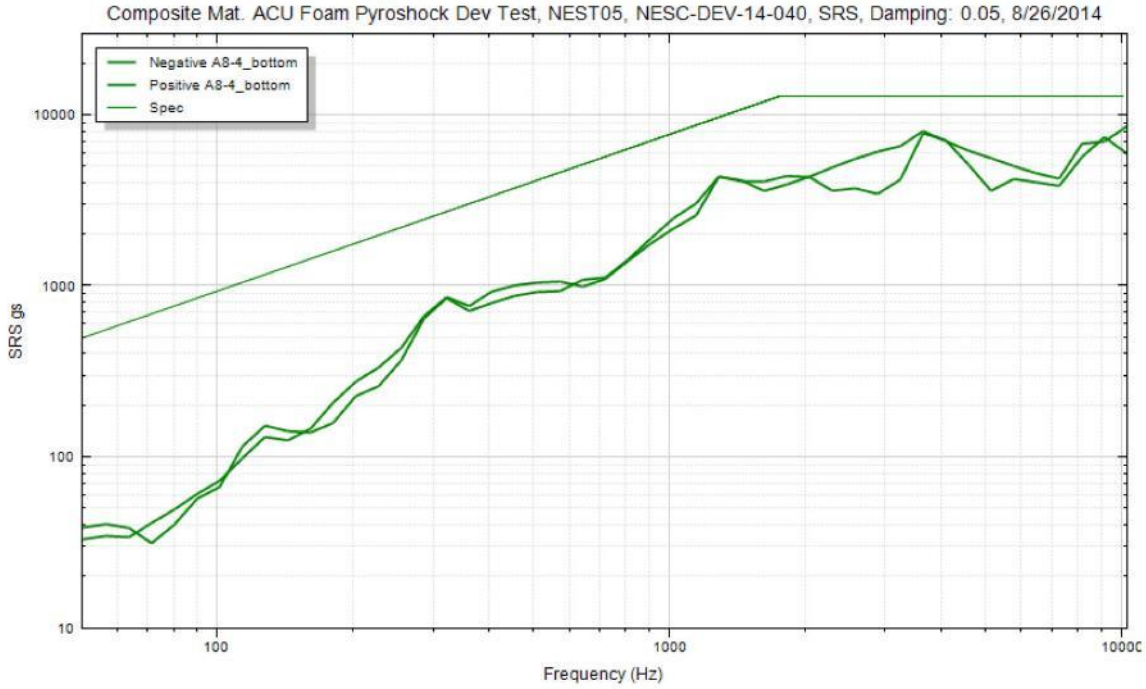
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

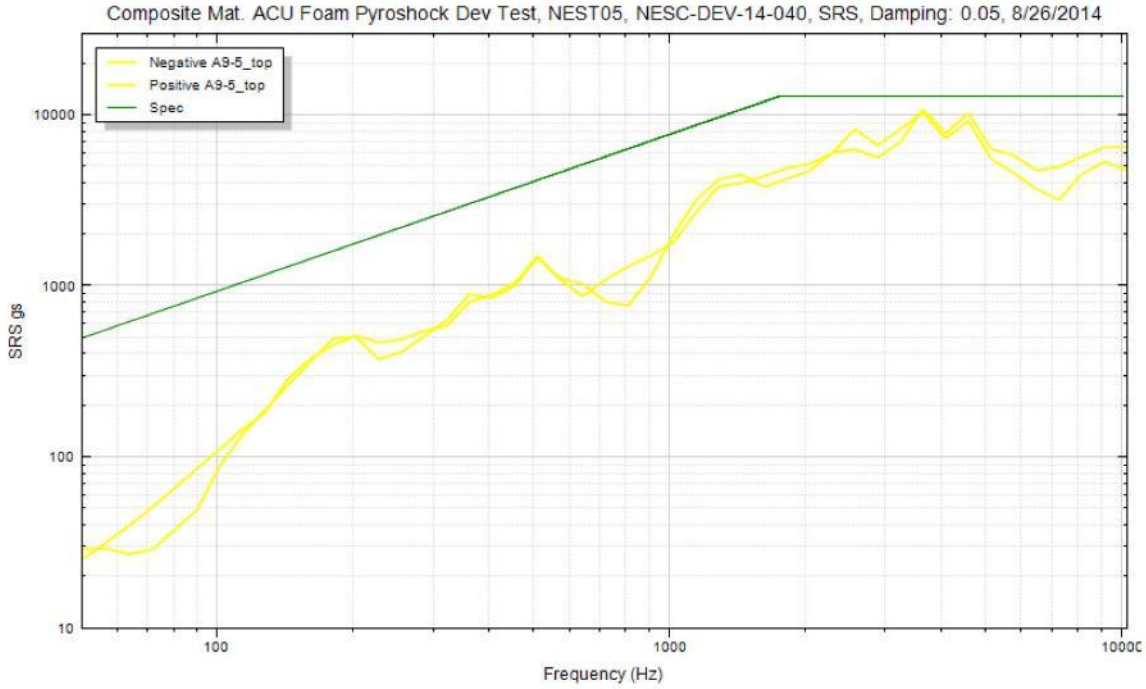
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A7-4_top
Positive A7-4_top
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

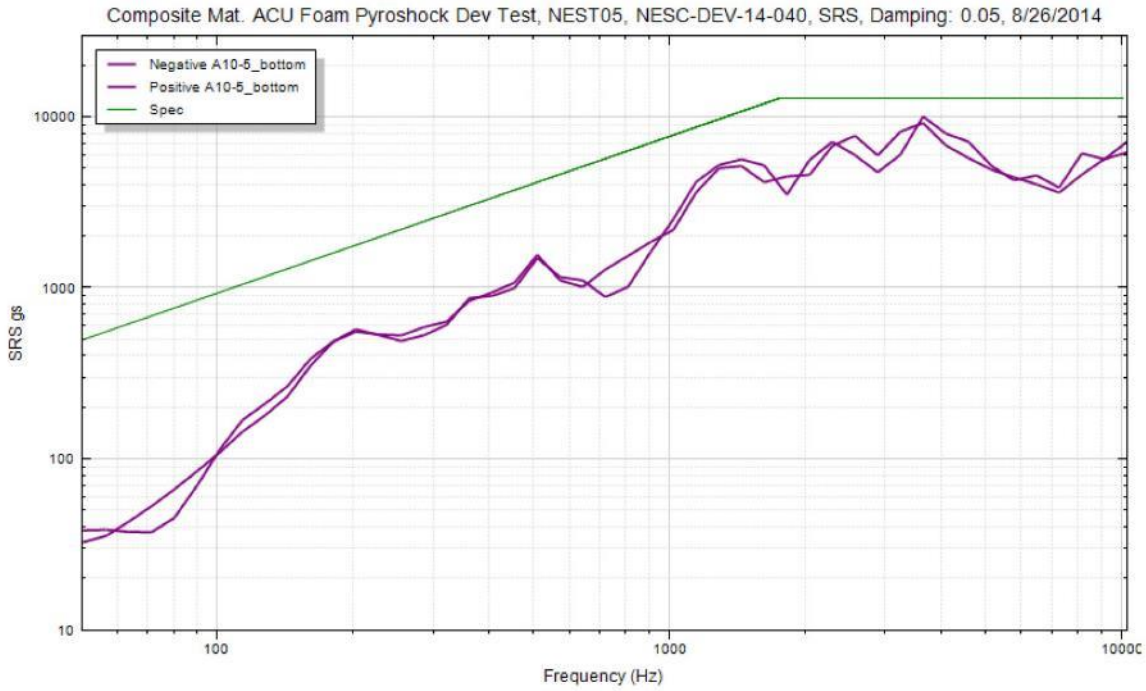
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
SRS gs
10000
1000
100
10
100
1000
Frequency (Hz)

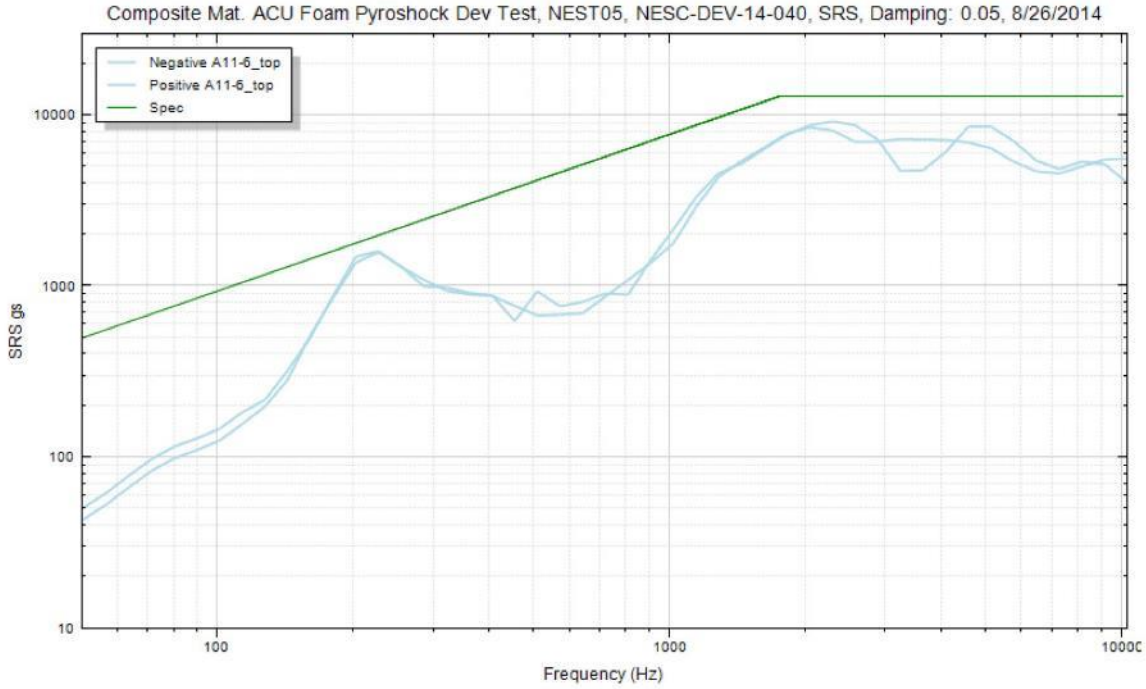
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A9-5_top
Positive A9-5_top
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

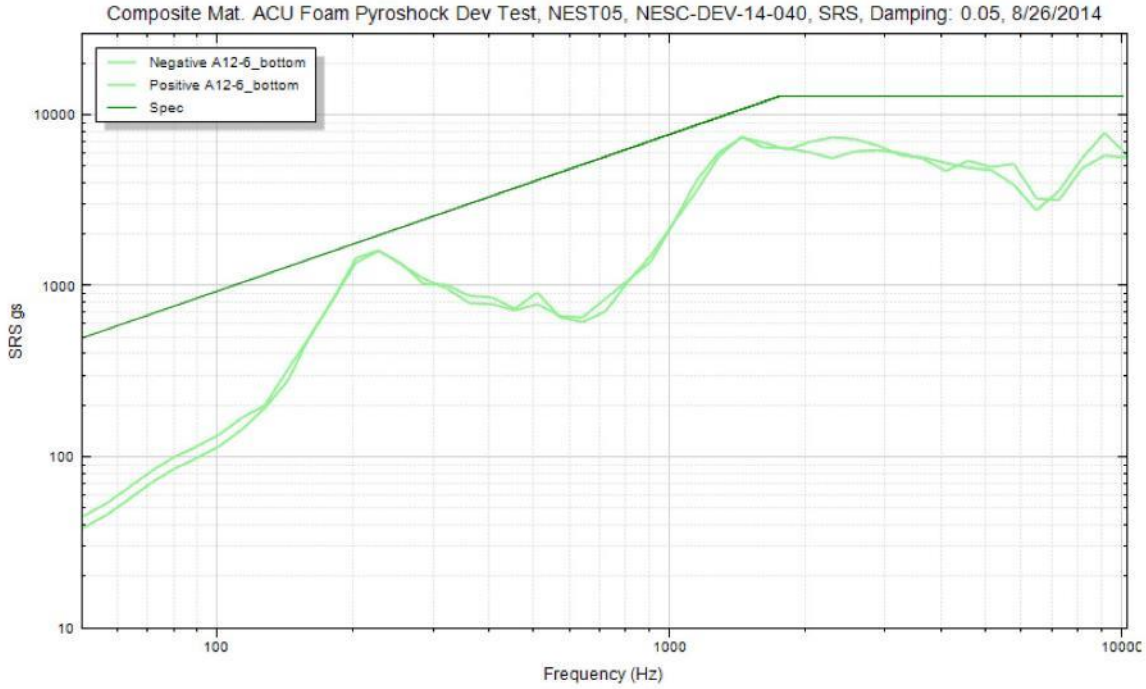
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

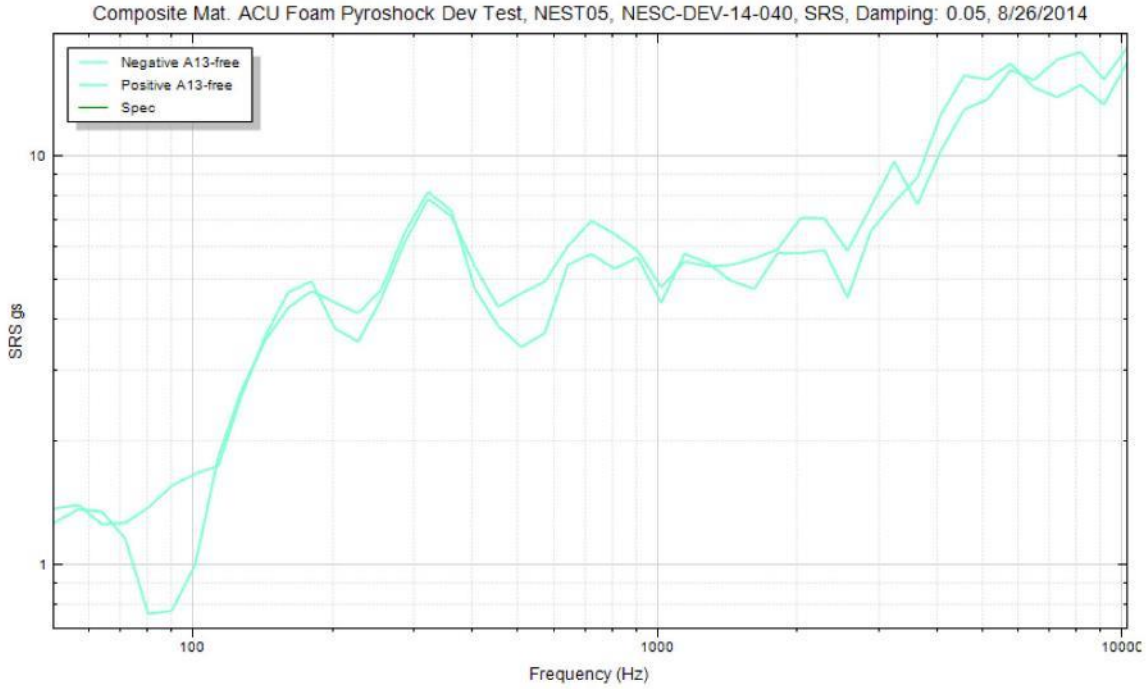
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

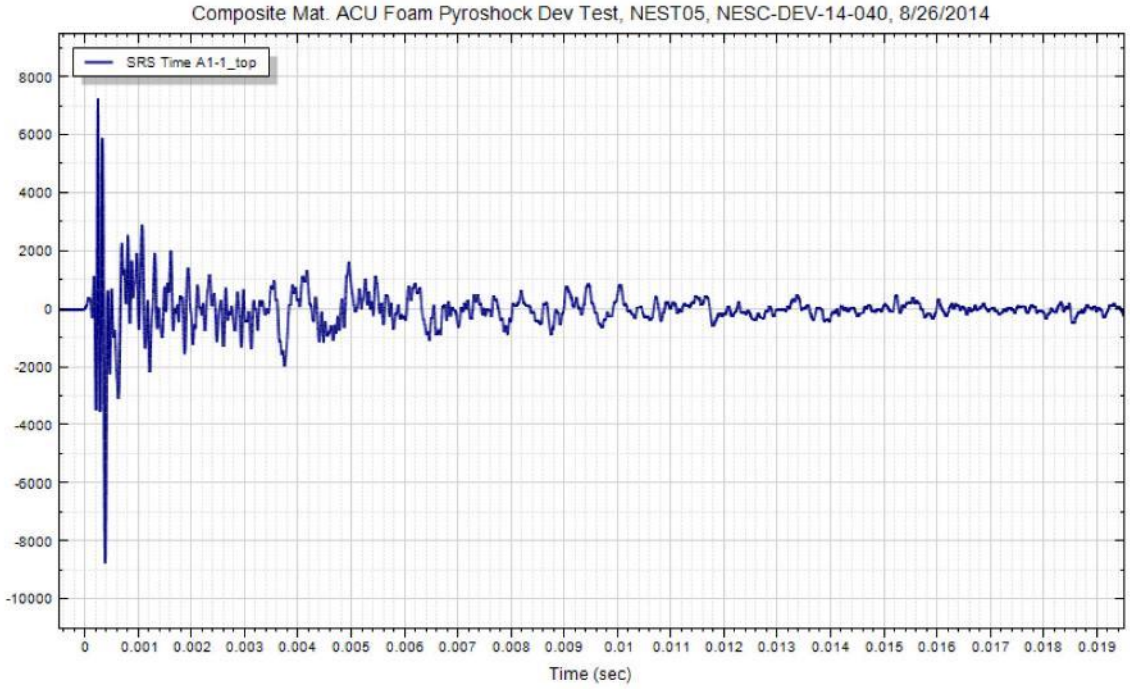
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

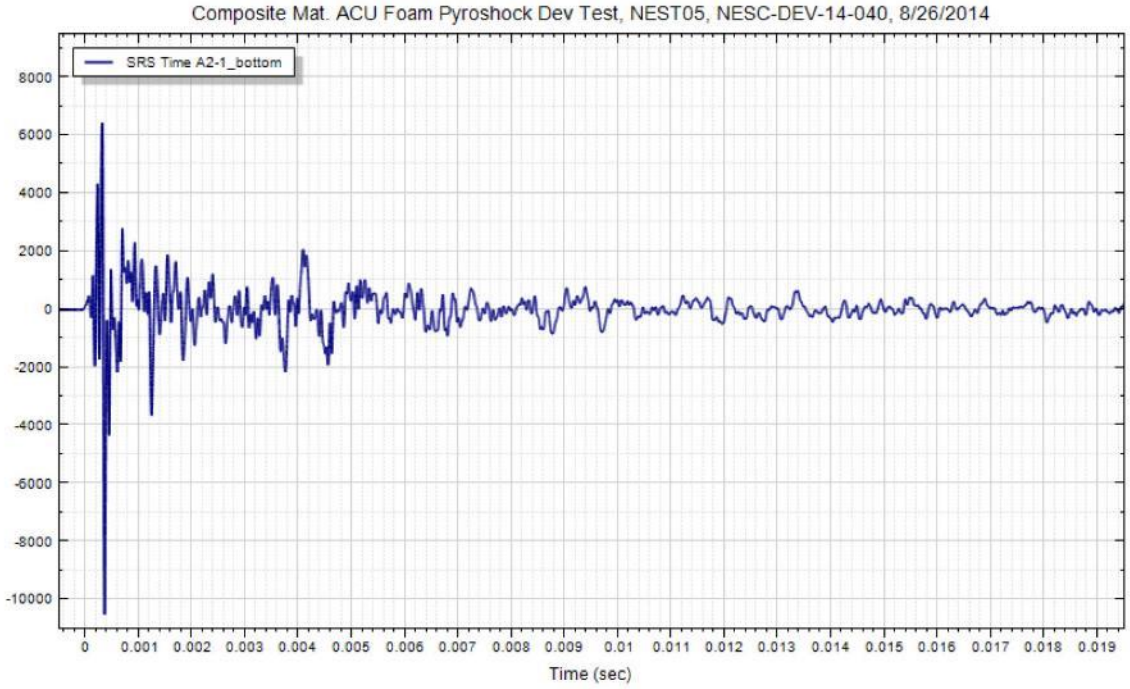
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, SRS, Damping: 0.05, 8/26/2014
Negative A13-free
Positive A13-free
Spec
10
1
SRS gs
100
1000
10000
Frequency (Hz)

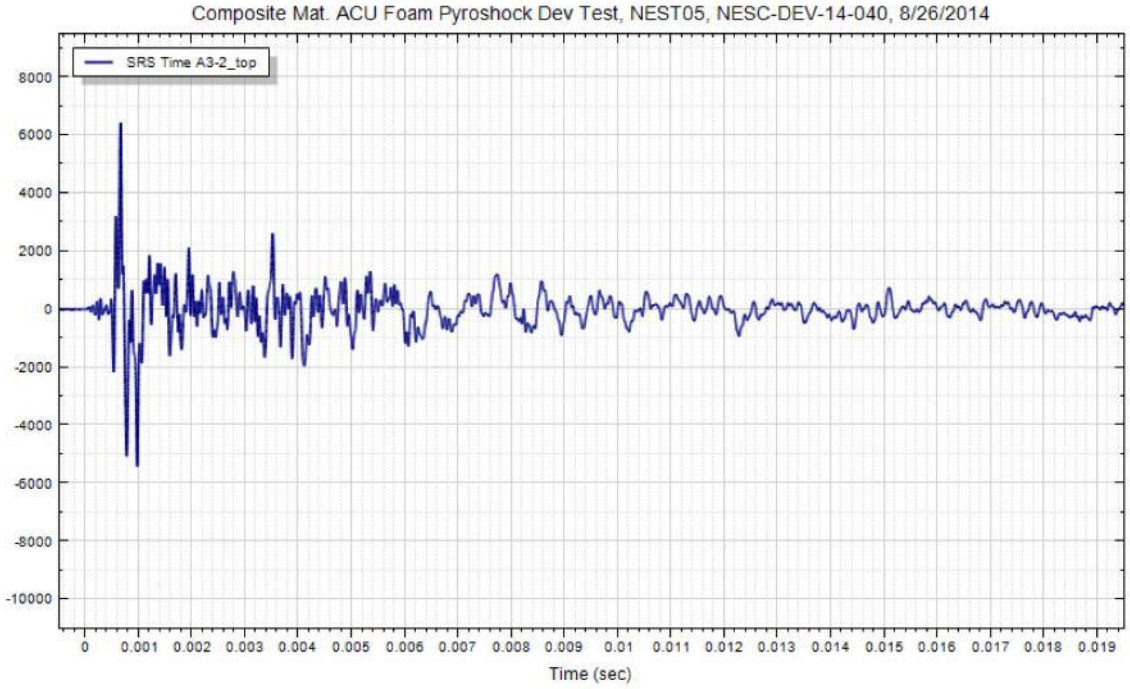
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A1-1_top
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

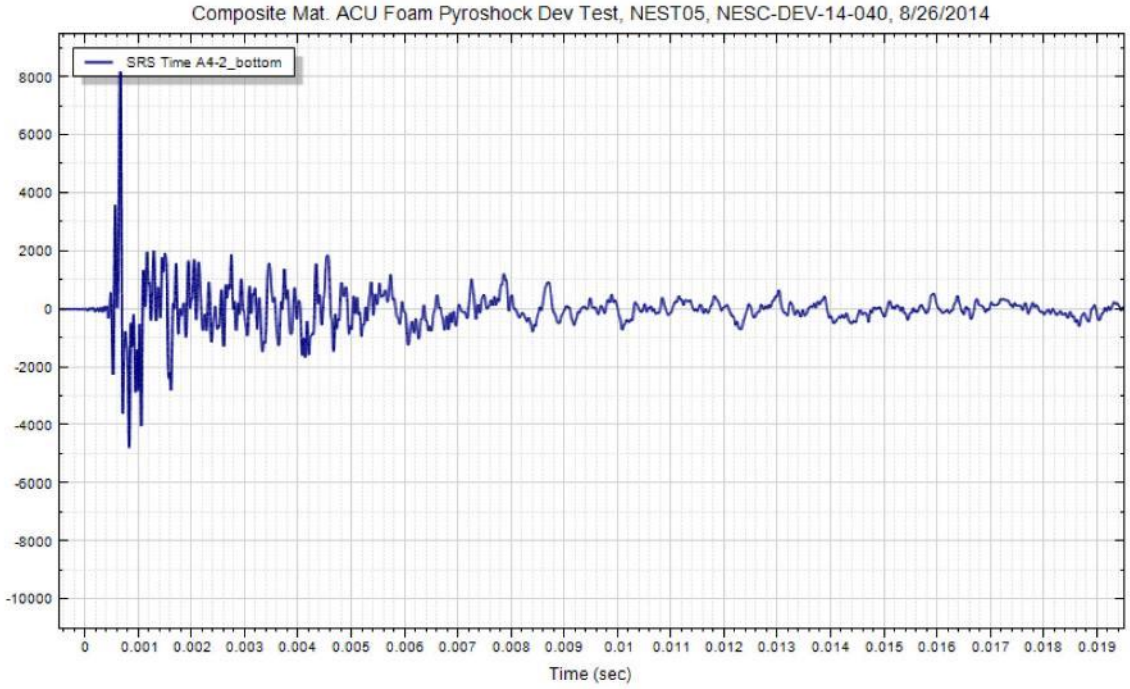
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A2-1_bottom
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

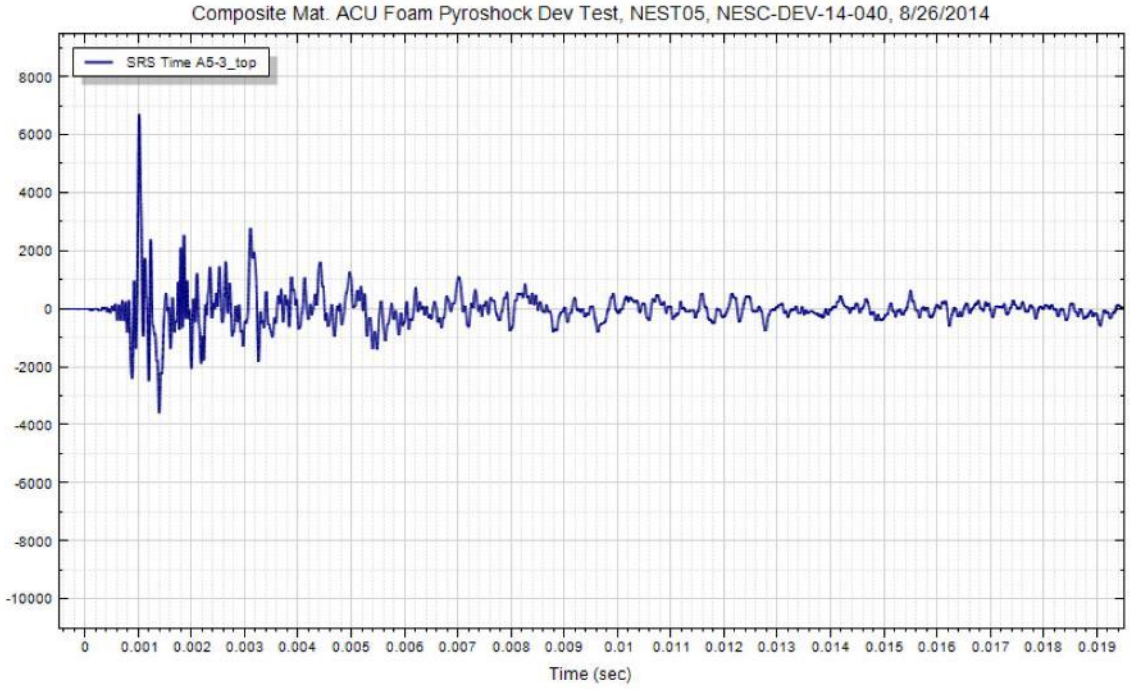
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A3-2_top
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

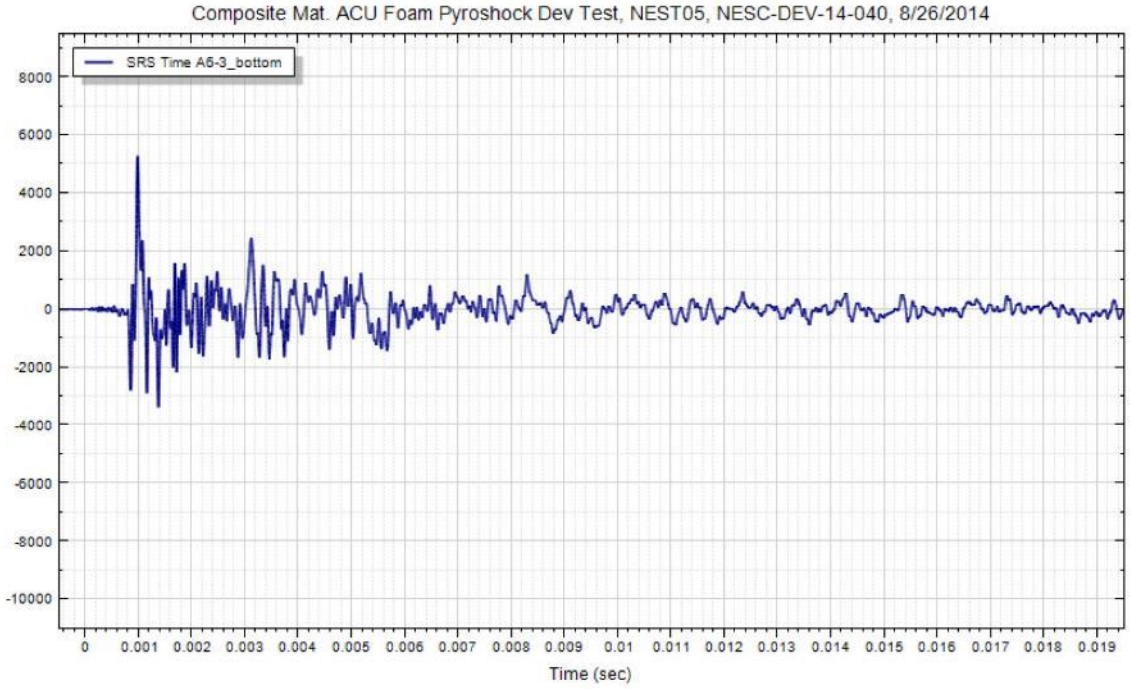
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A4-2_bottom
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

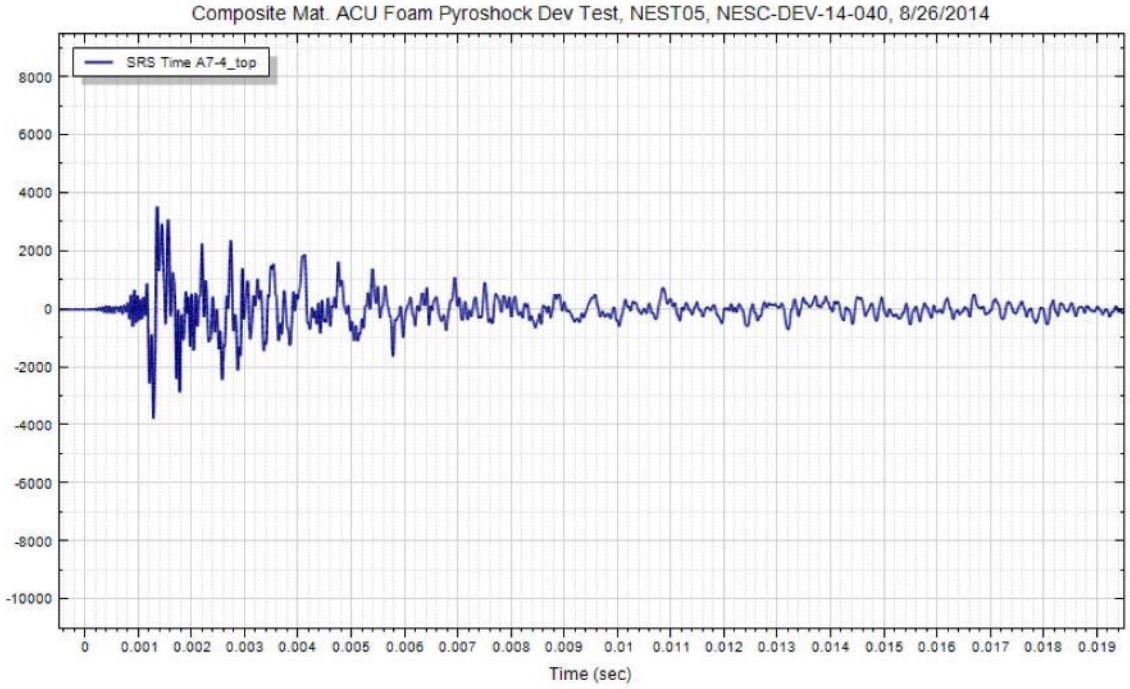
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A5-3_top
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

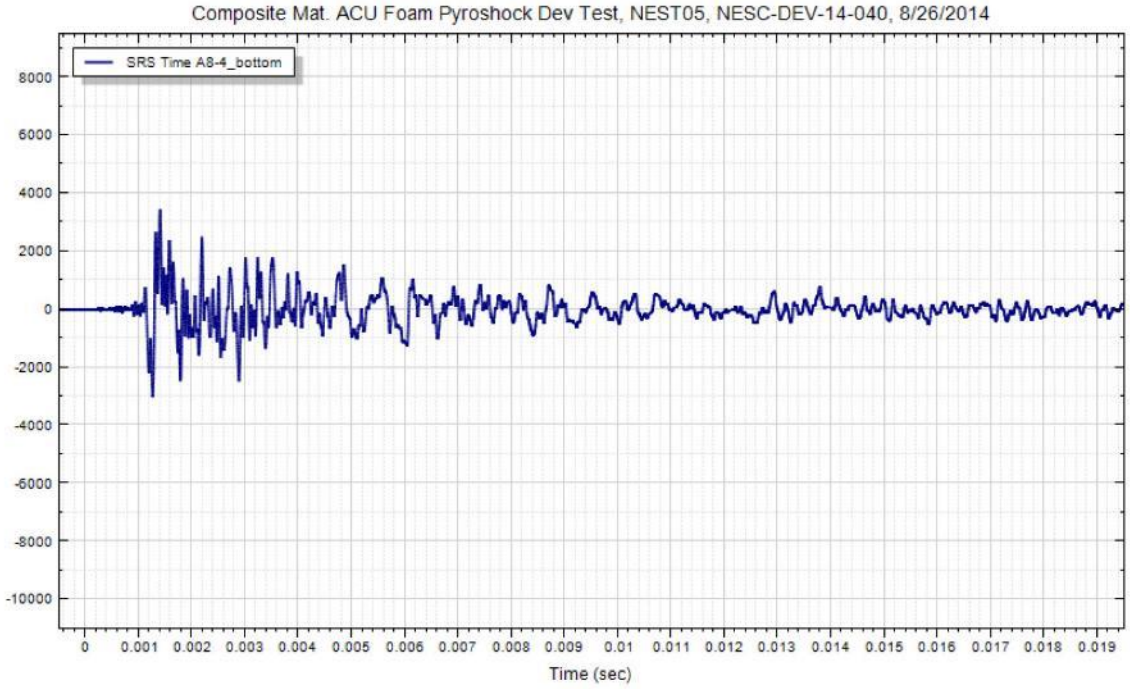
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A6-3_bottom
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

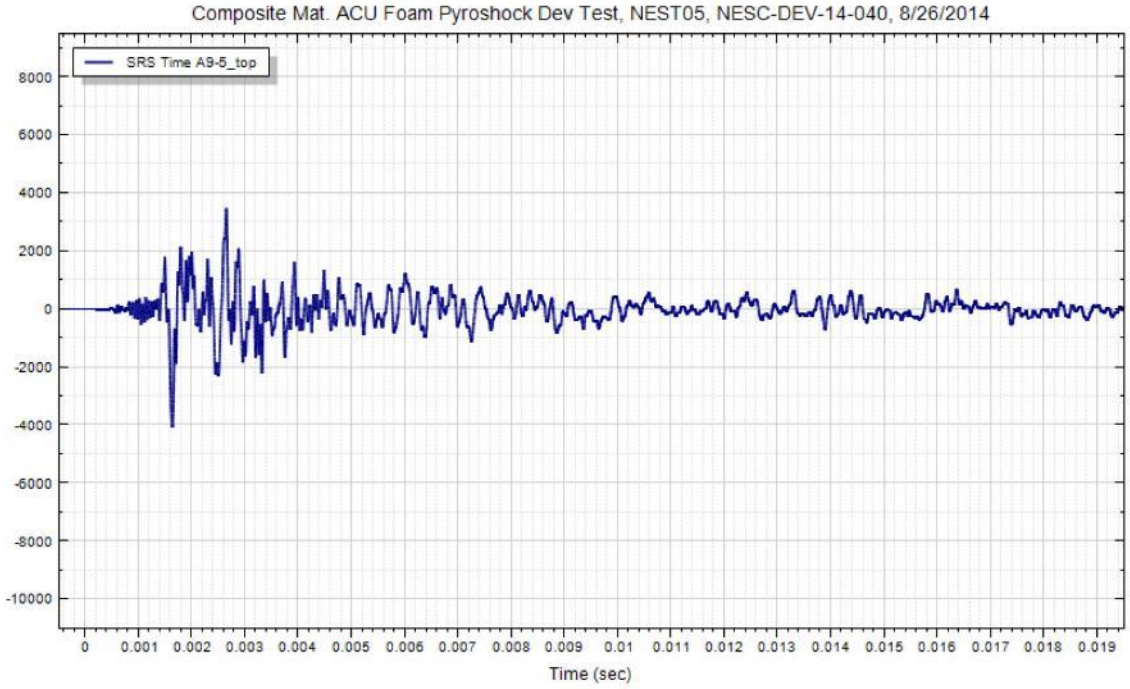
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A7-4_top
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

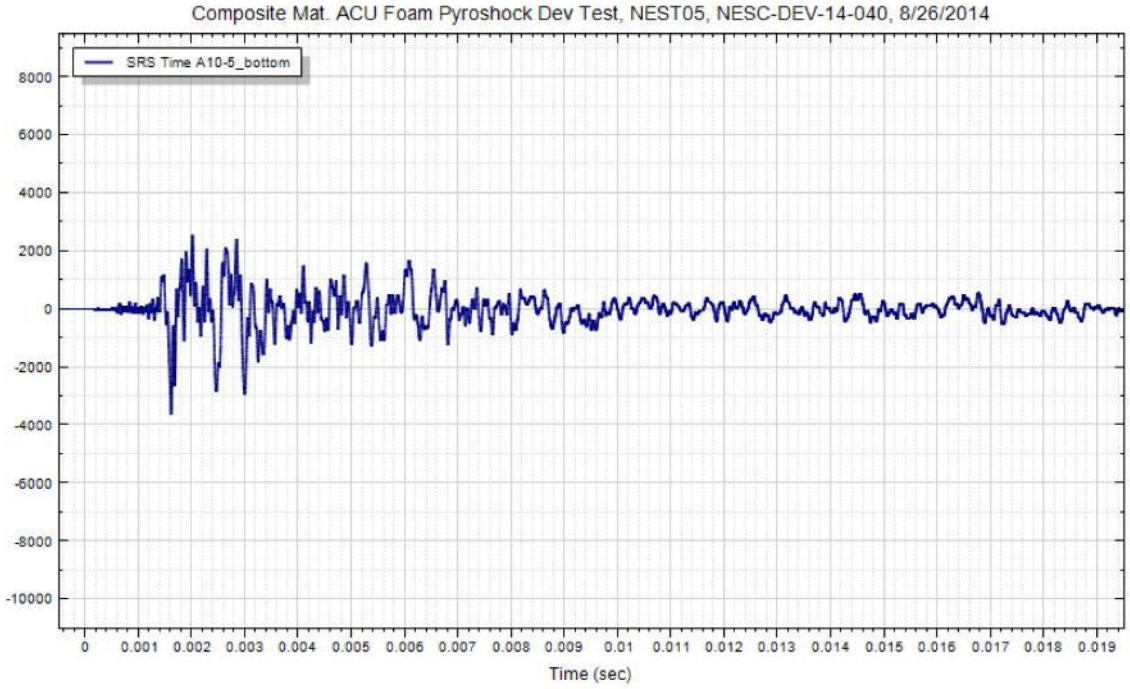
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A8-4_bottom
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

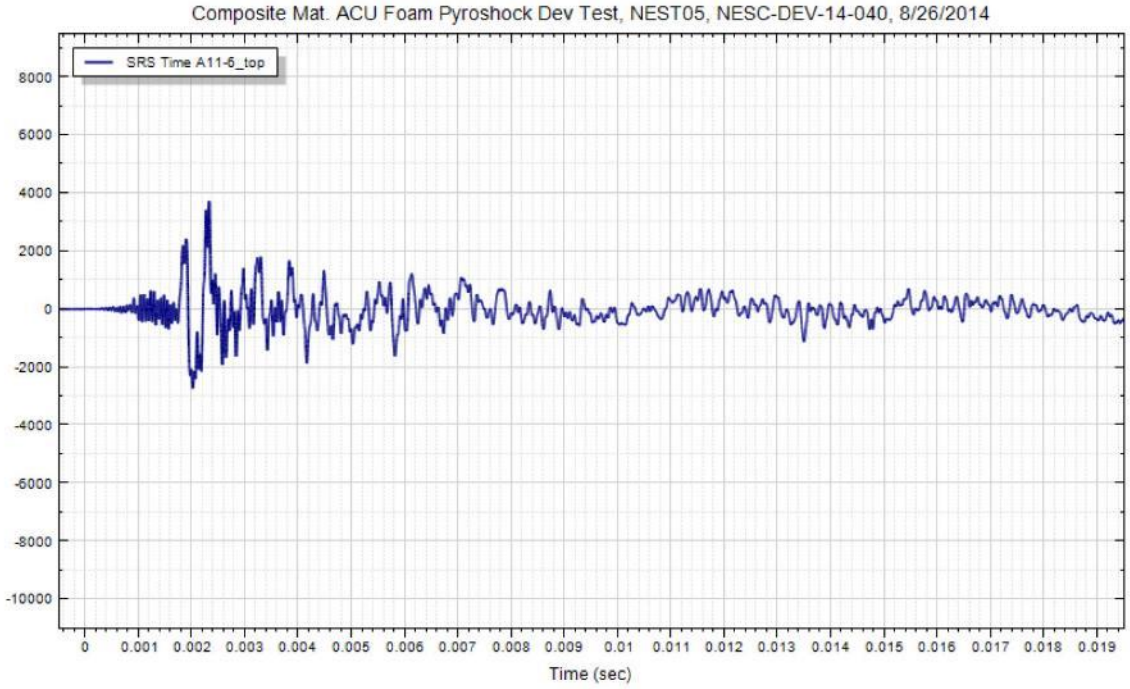
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A9-5_top
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

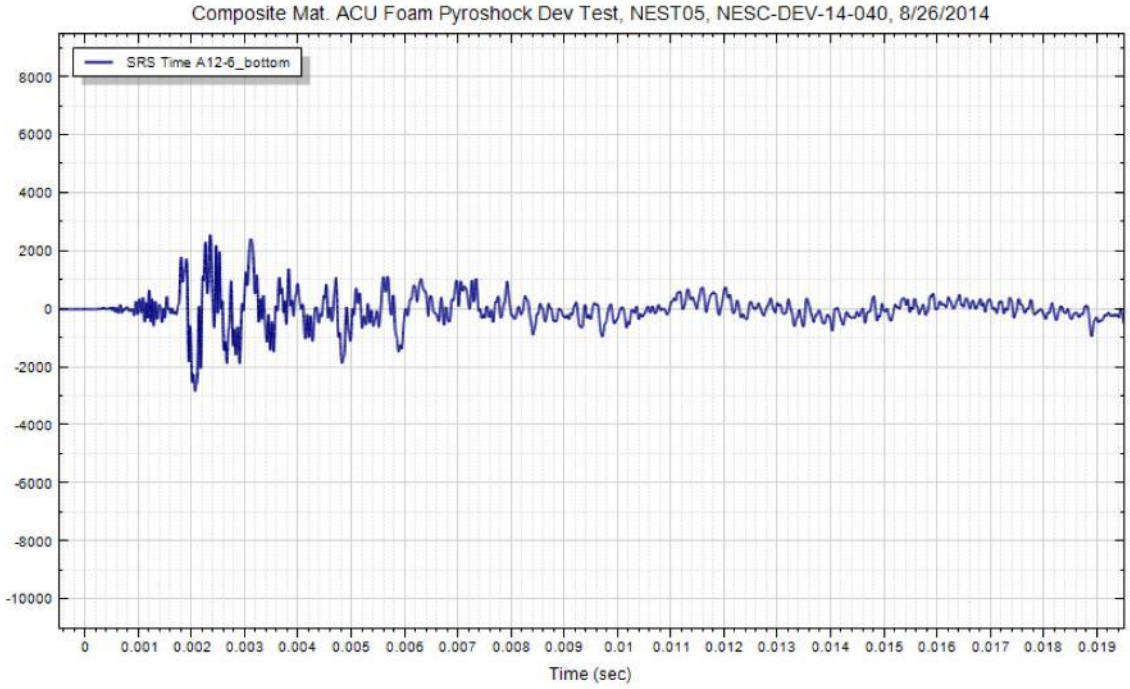
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A10-5_bottom
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

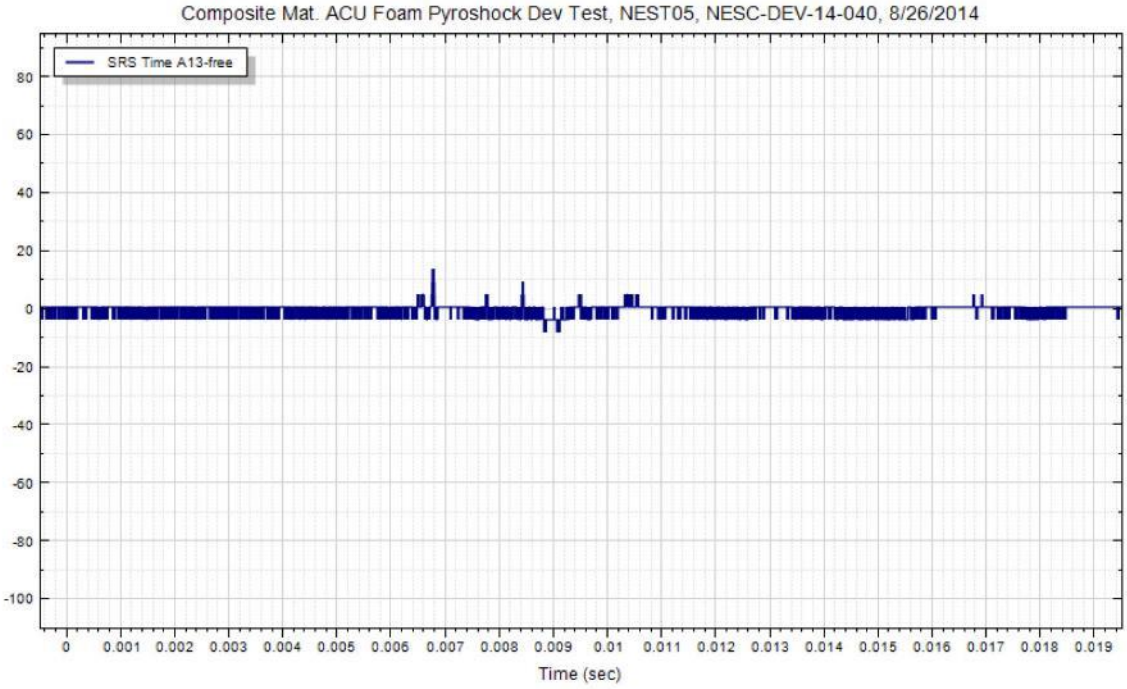
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A11-6_top
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A12-6_bottom
8000
6000
4000
2000
0
-2000
-4000
-6000
-8000
-10000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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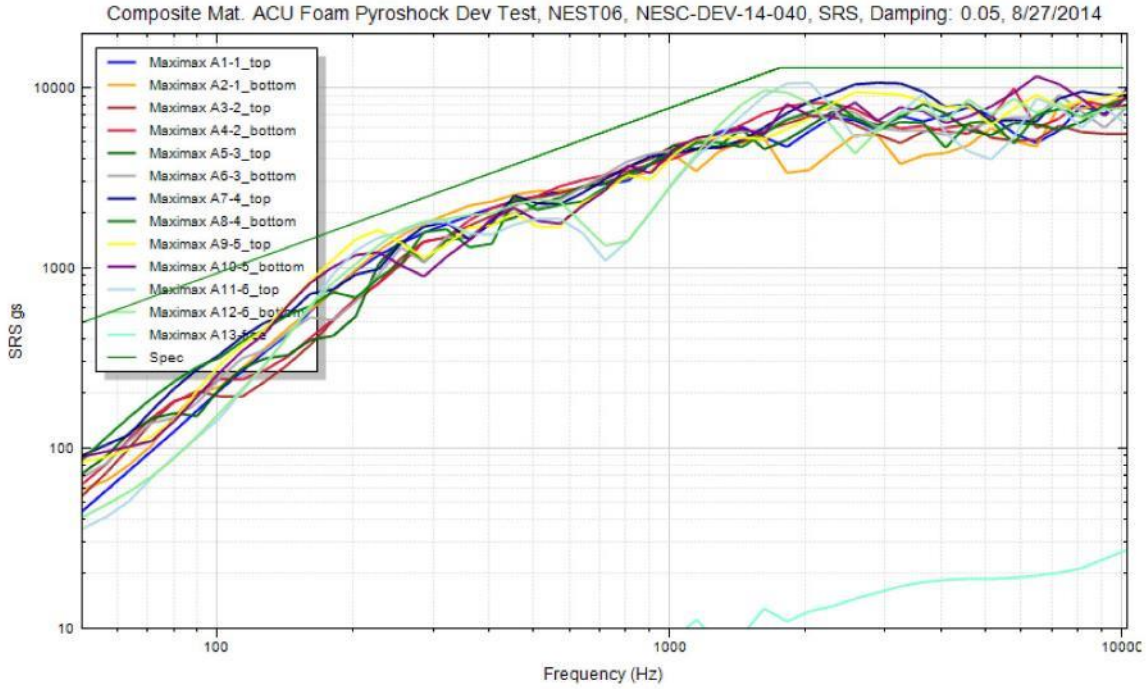

Composite Mat. ACU Foam Pyroshock Dev Test, NEST05, NESC-DEV-14-040, 8/26/2014
SRS Time A13-free
80
60
40
20
0
-20
-40
-60
-80
-100
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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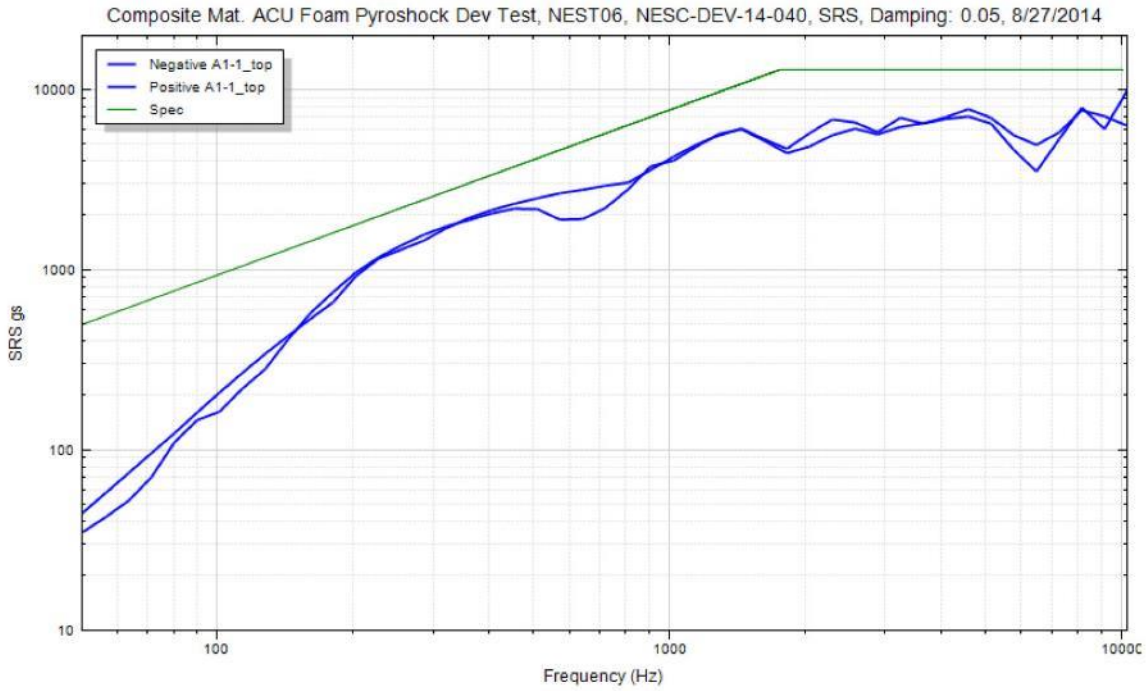
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #6 Accelerometer Data
Aluminum Pathfinder Panel

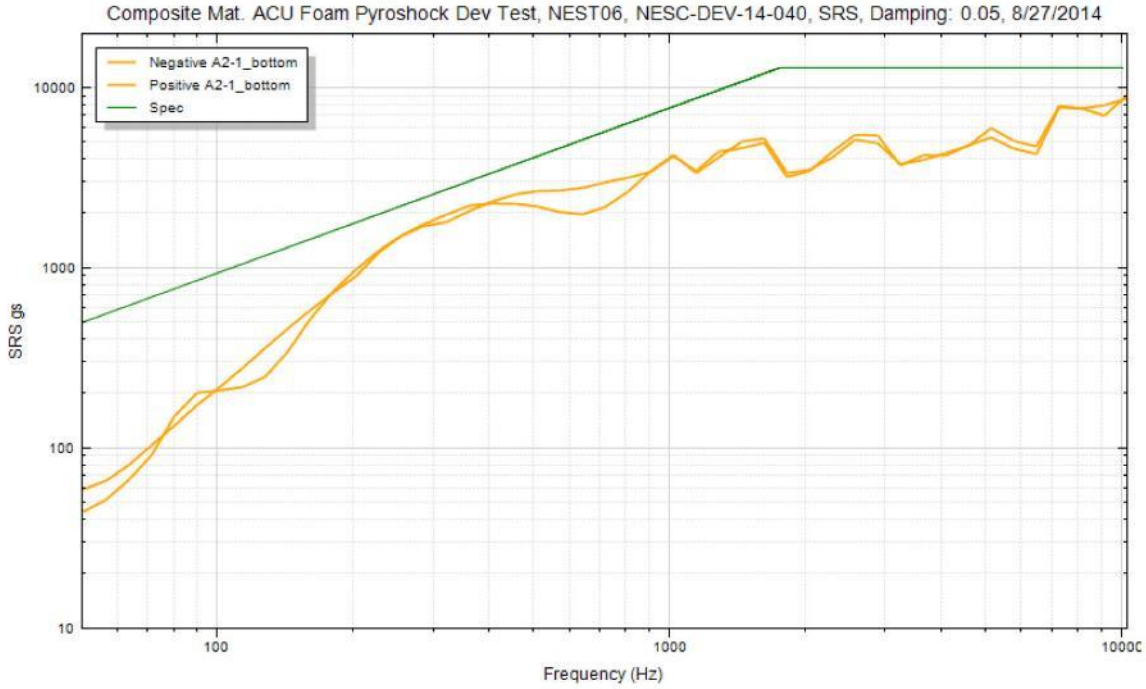
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-6_s
Spec
SRS gs
10000
1000
100
10
100
1000
Frequency (Hz)

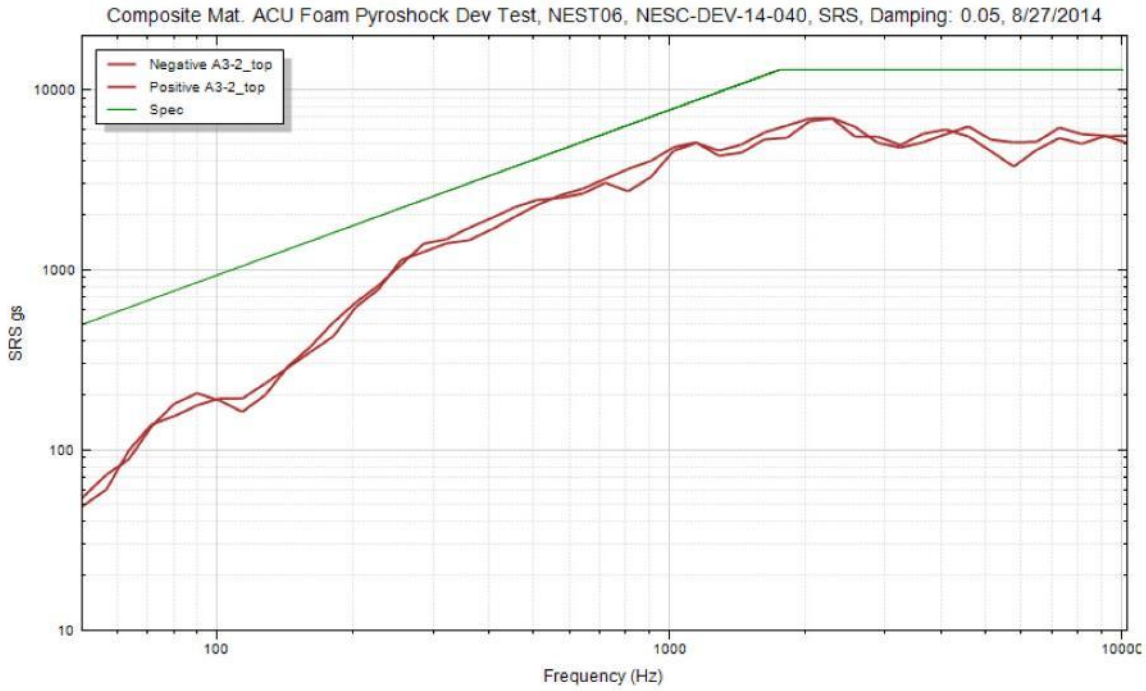
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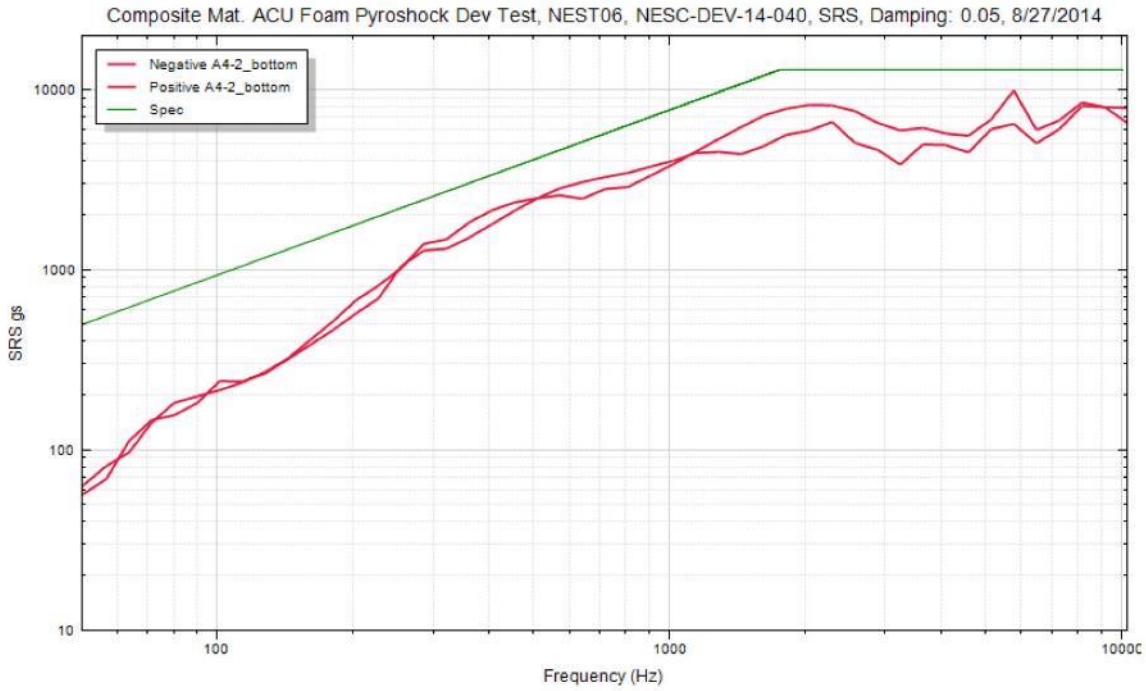

Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

214 of 382

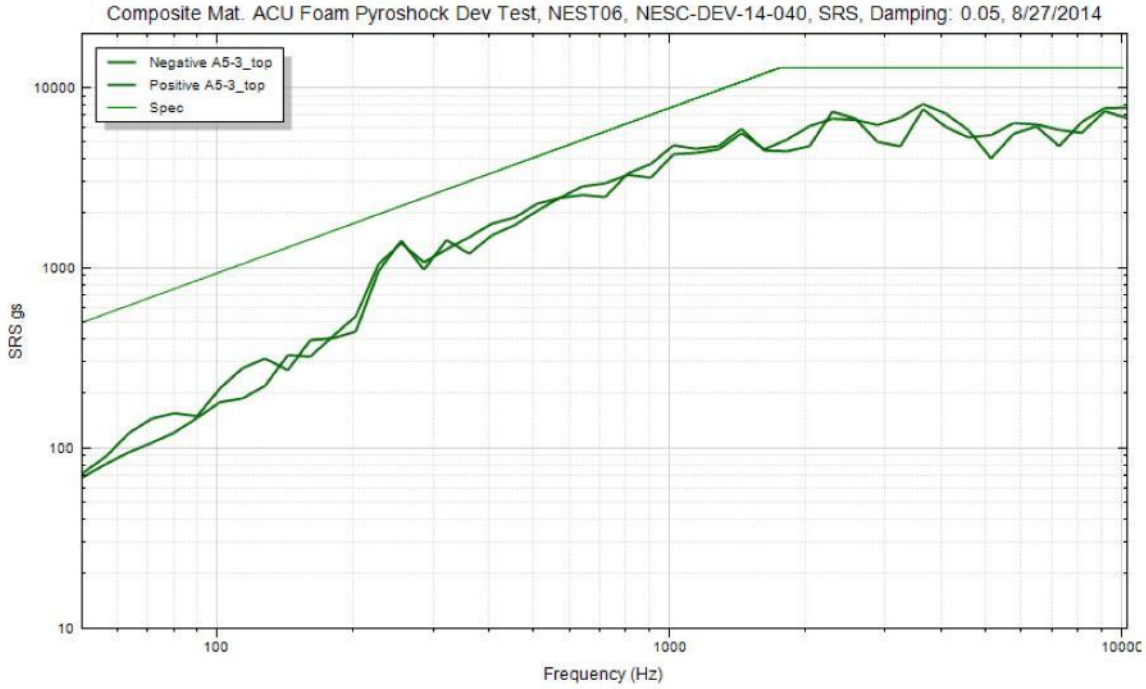

Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

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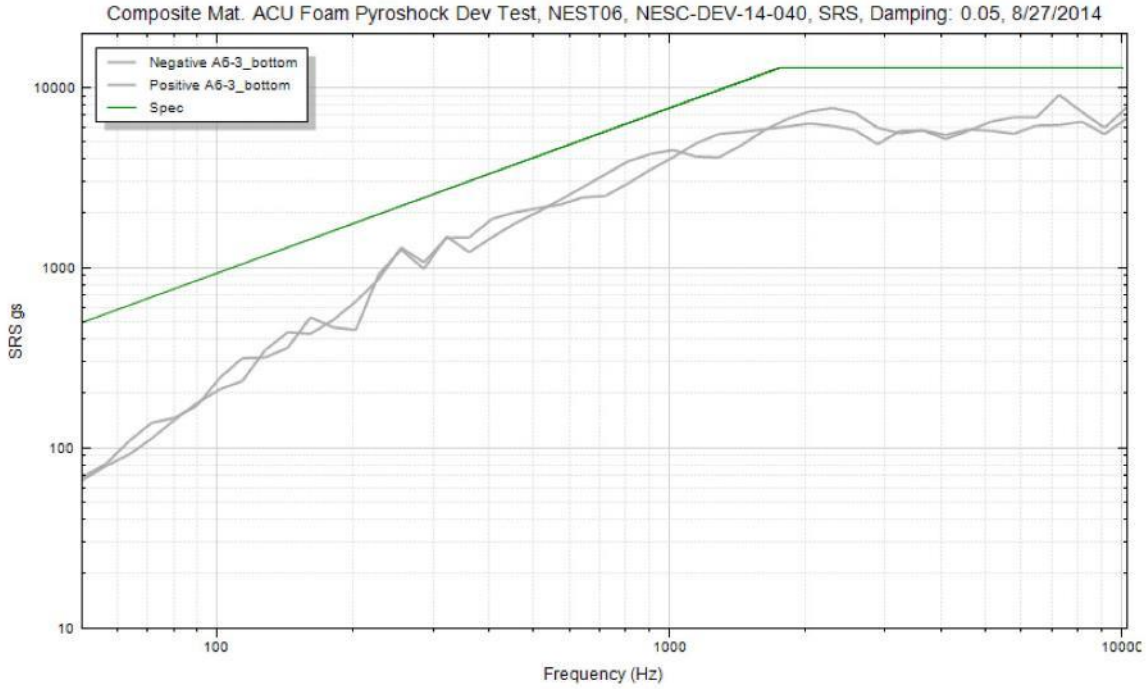

Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)


Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

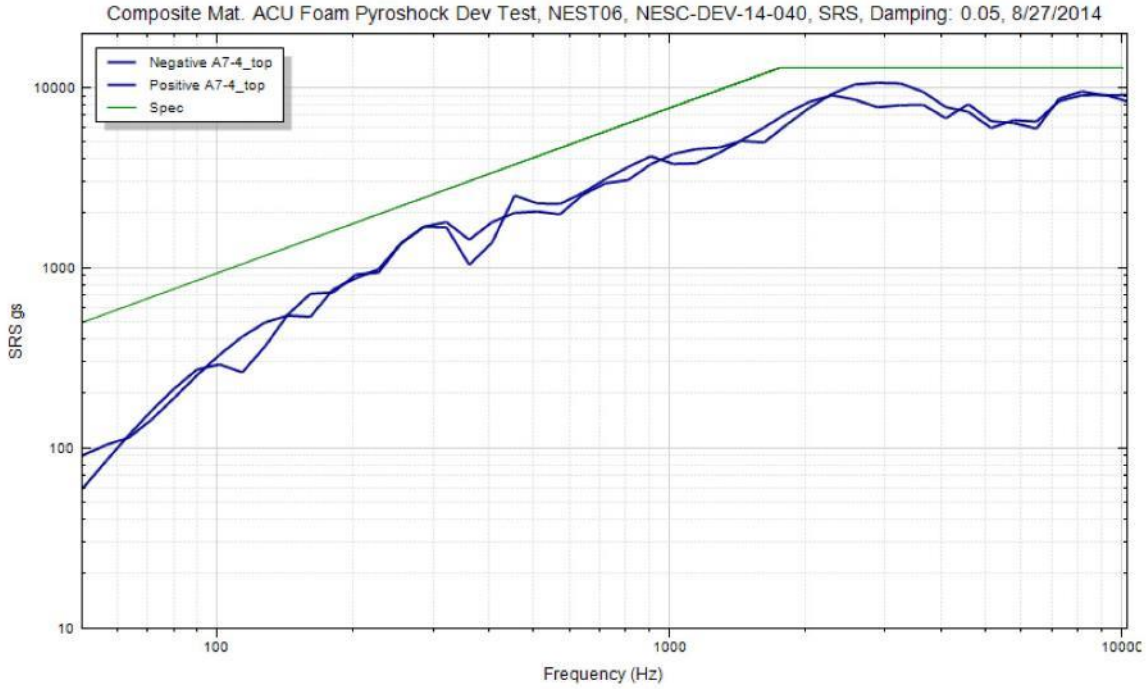
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

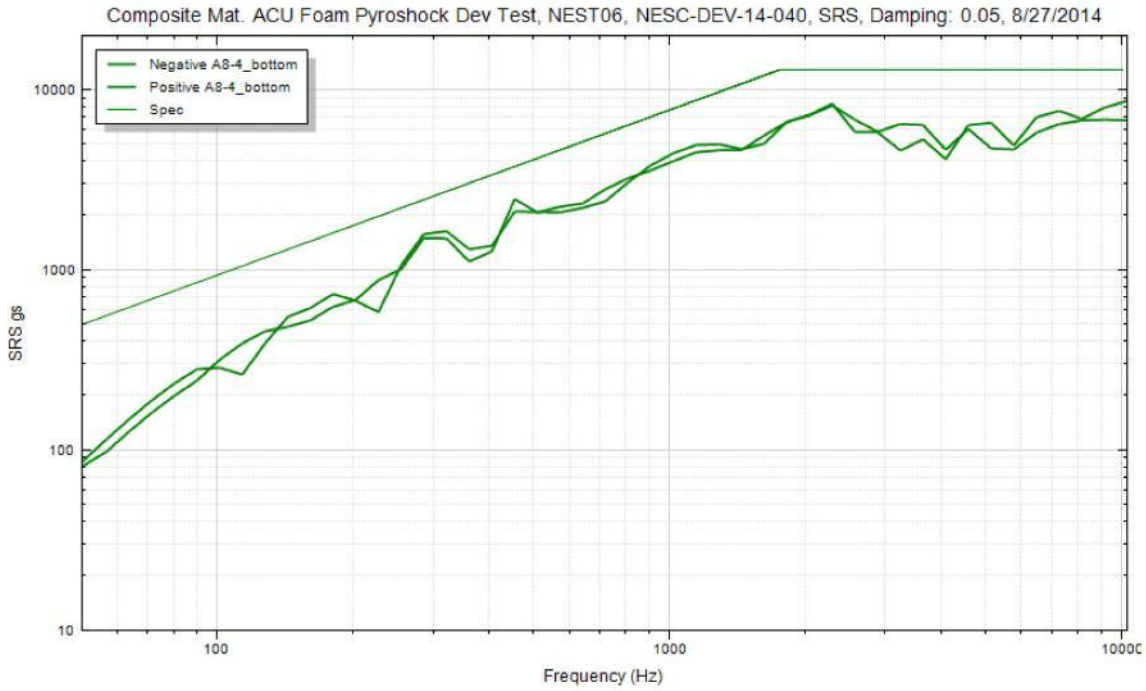
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

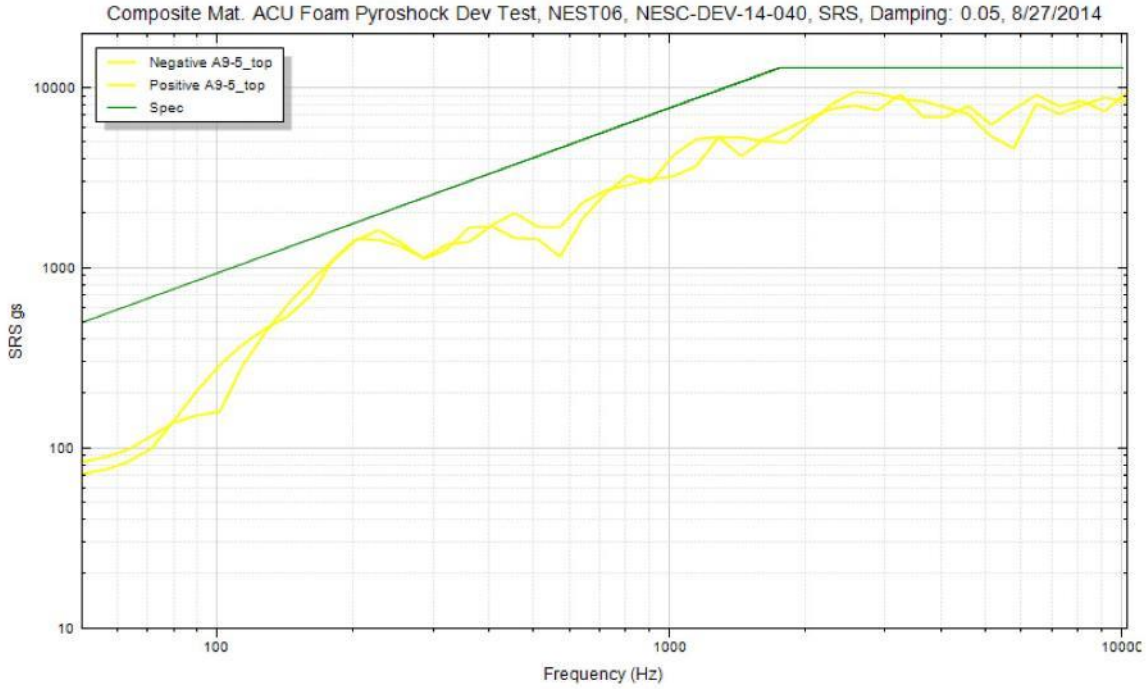
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

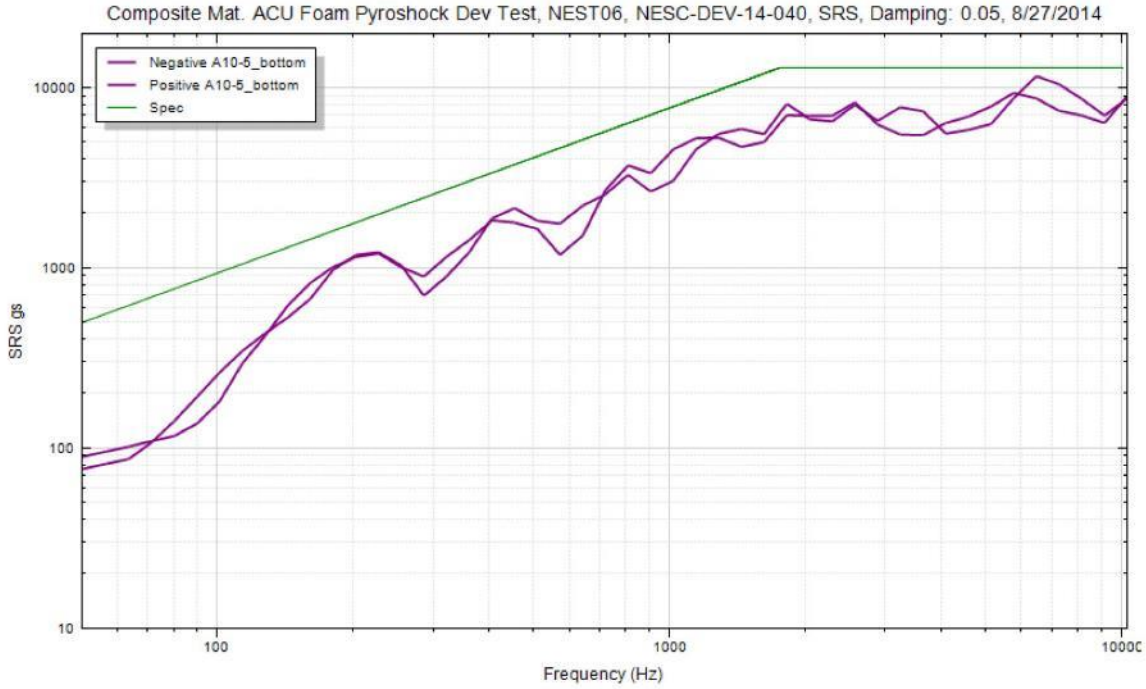
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

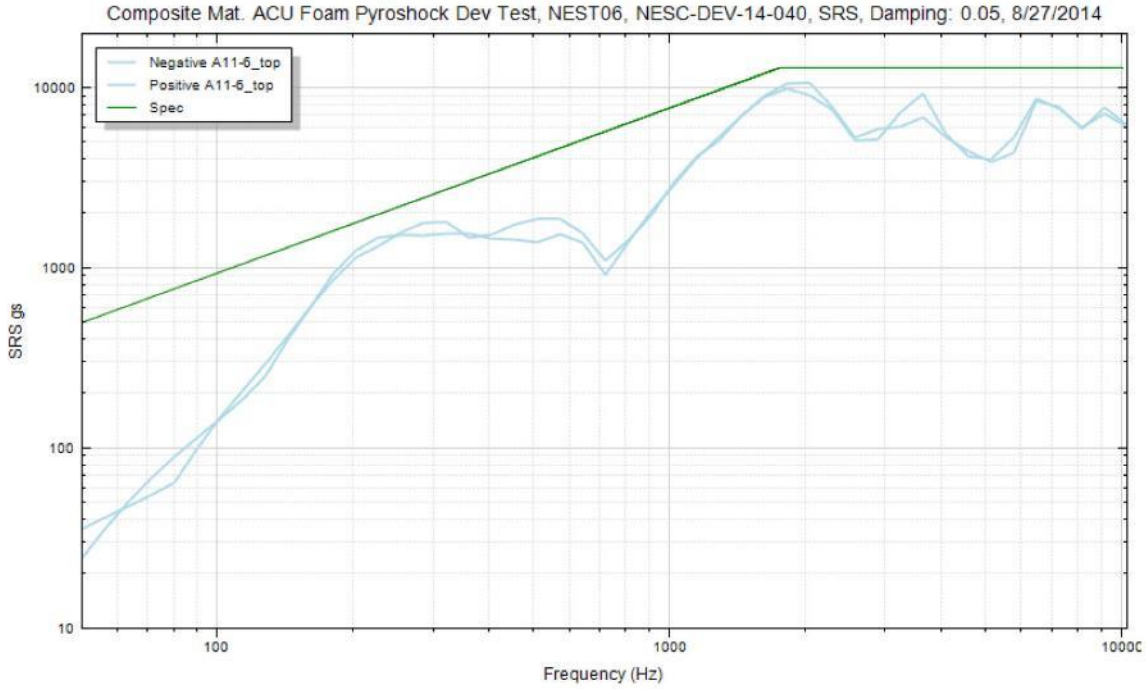
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

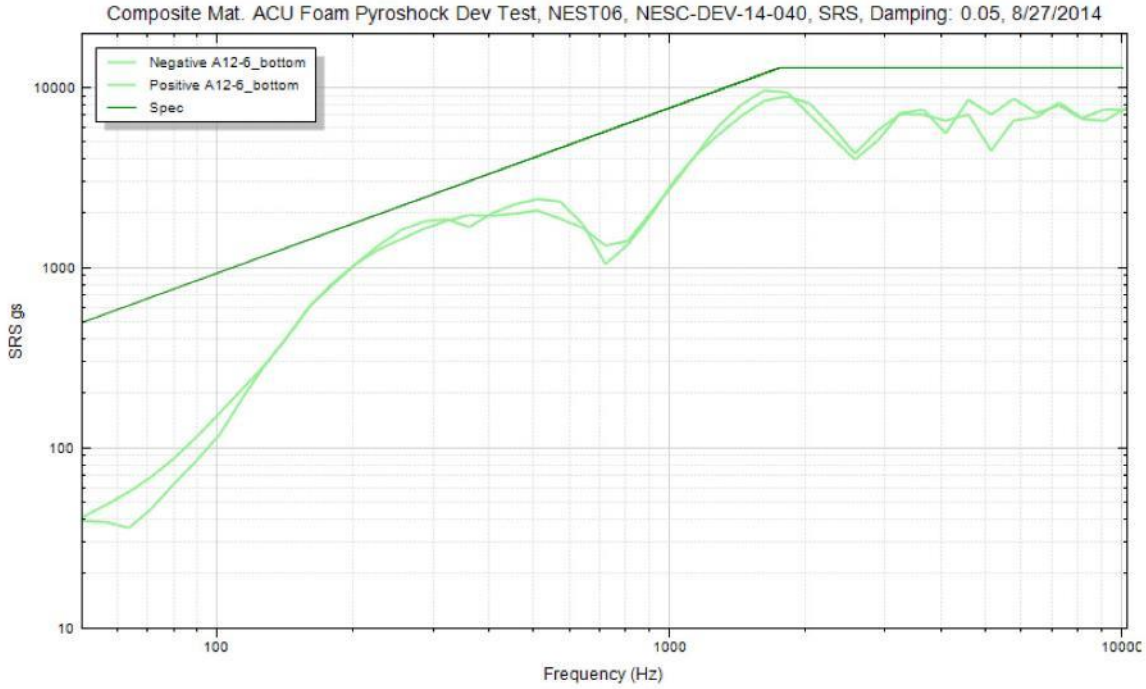
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

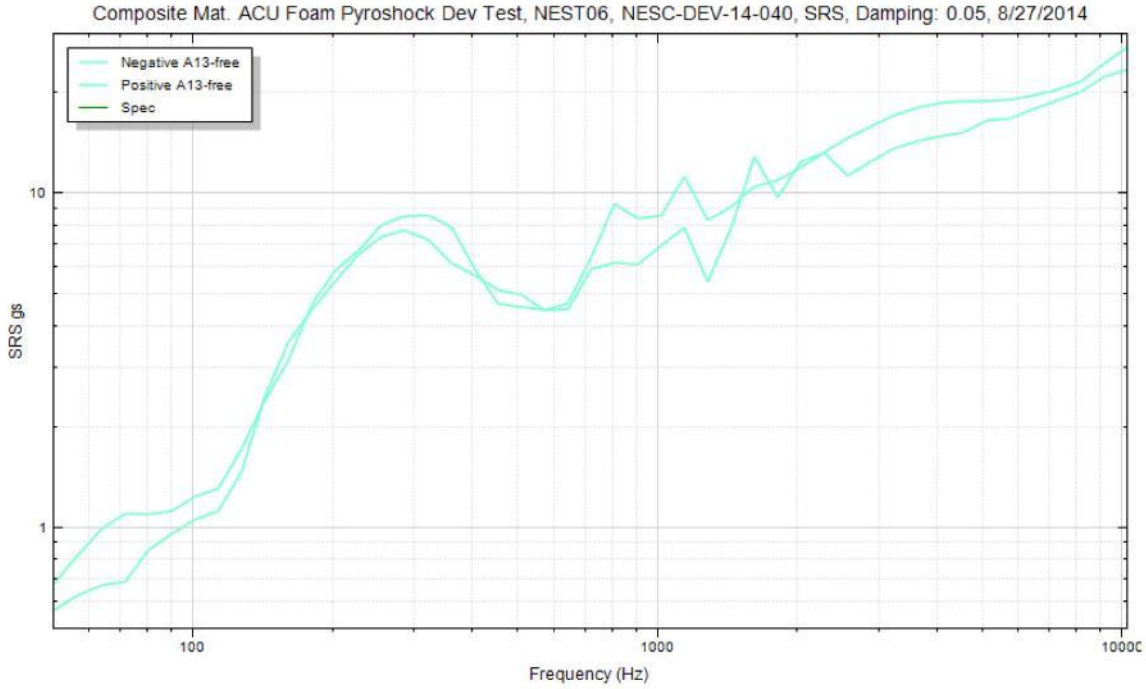
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

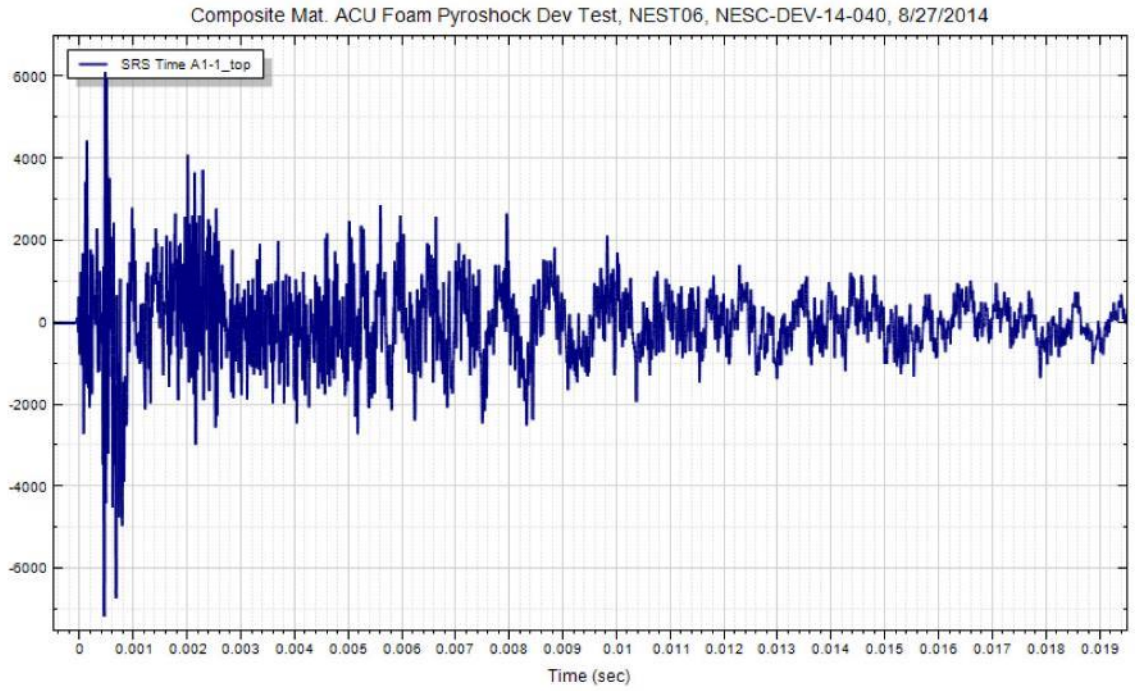
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

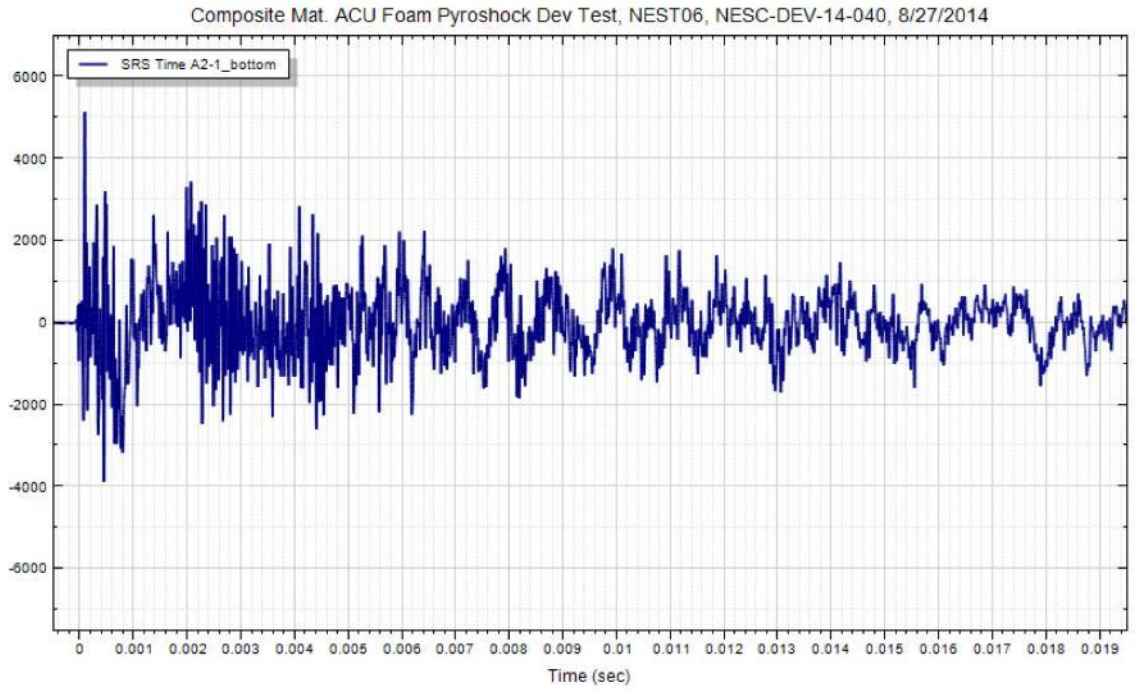
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, SRS, Damping: 0.05, 8/27/2014
Negative A13-free
Positive A13-free
Spec
10
1
SRS gs
100
1000
10000
Frequency (Hz)

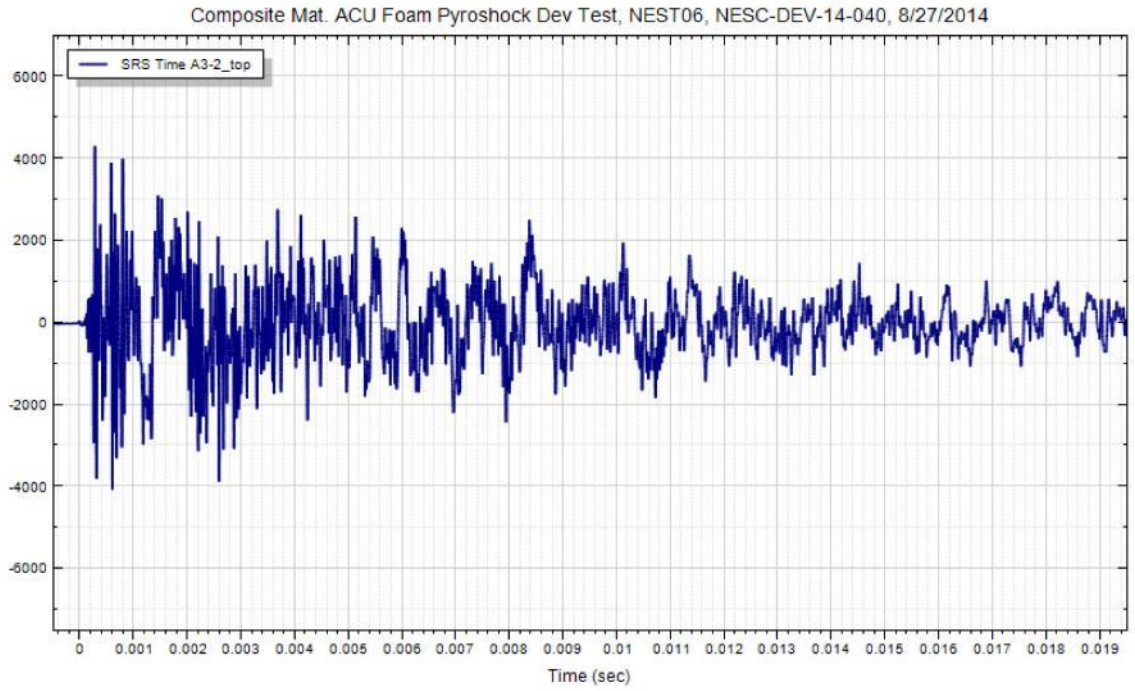
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A1-1_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

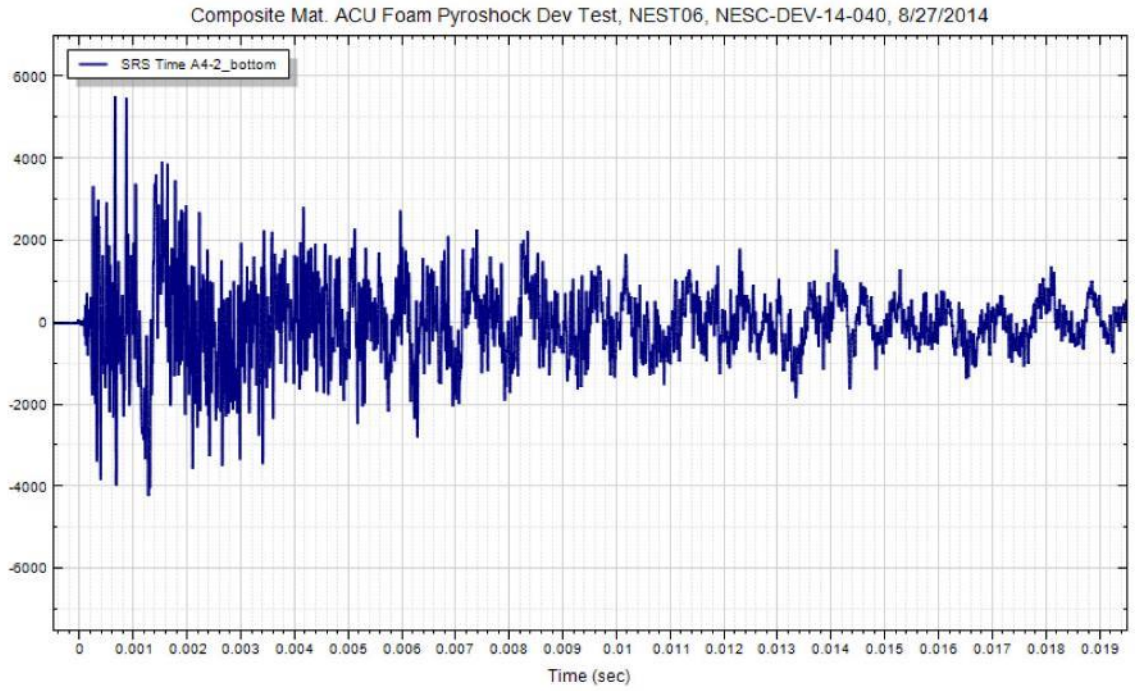
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A2-1_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

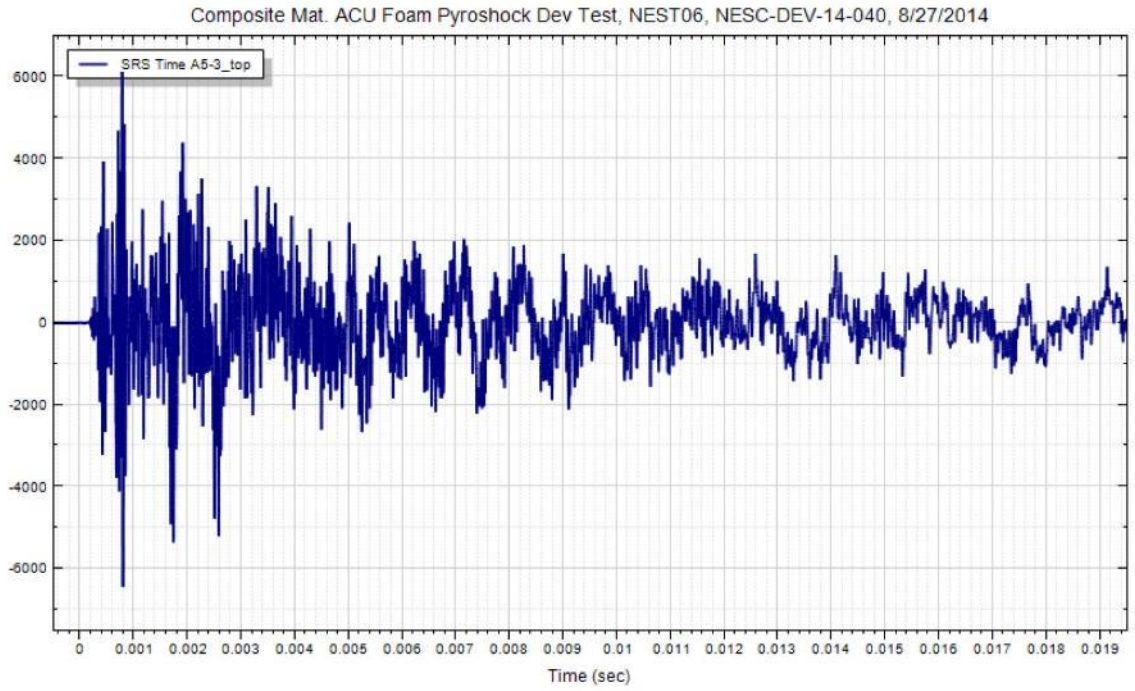
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A3-2_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

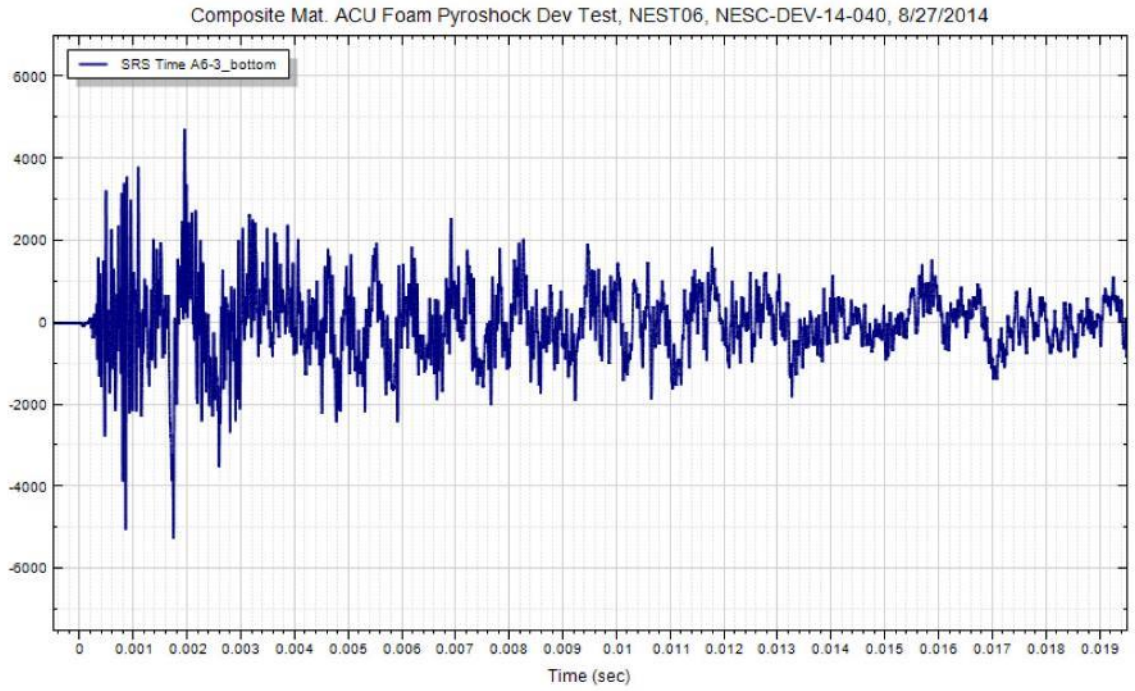
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A4-2_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

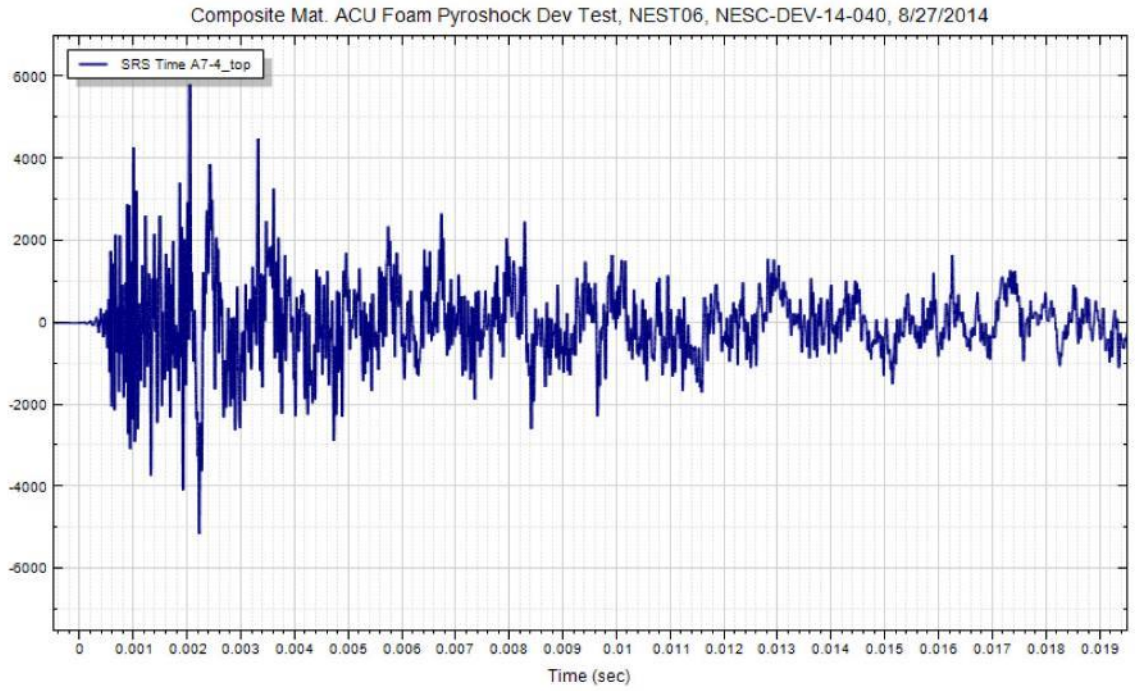
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A5-3_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

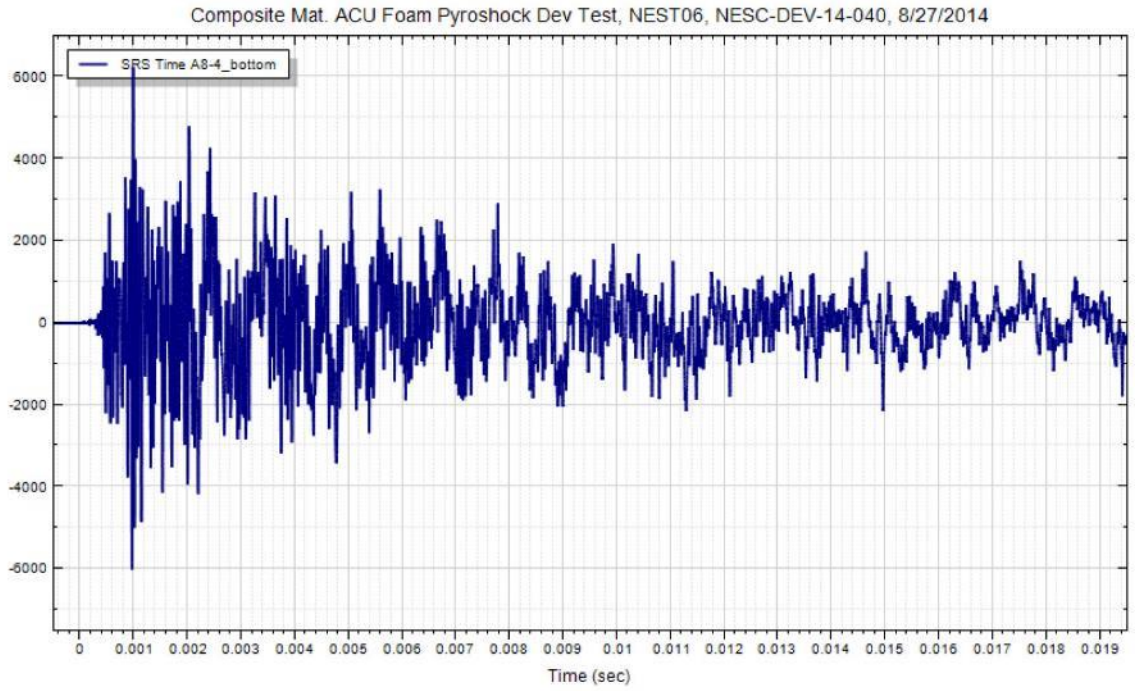
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A6-3_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

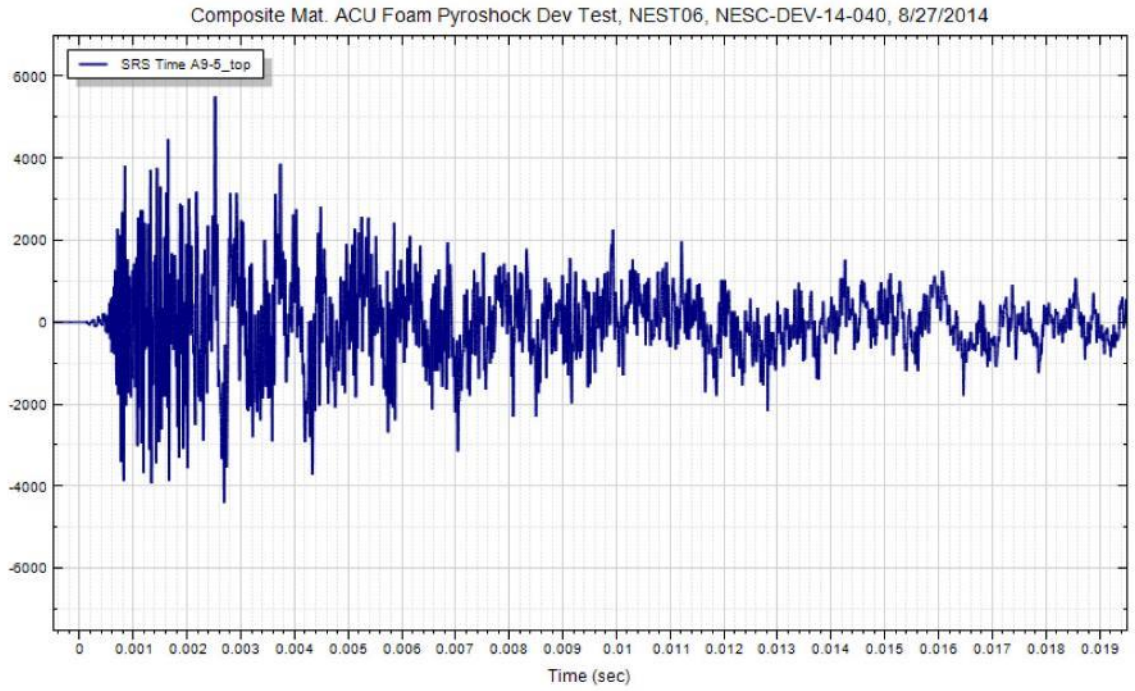
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A7-4_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

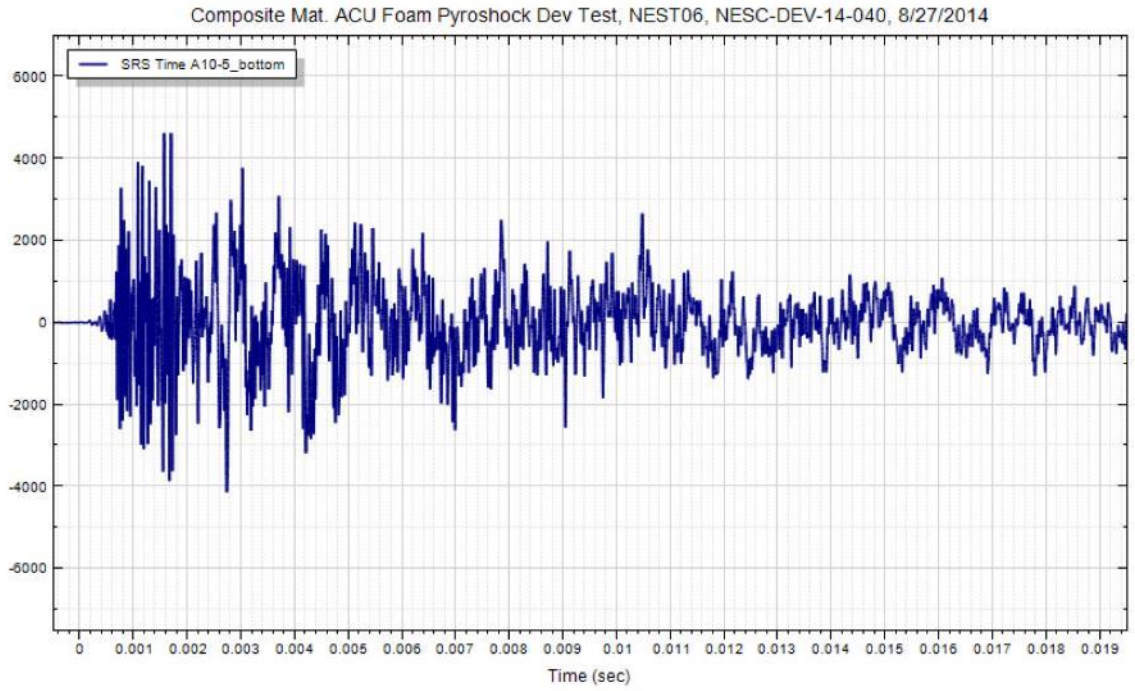
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A8-4_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

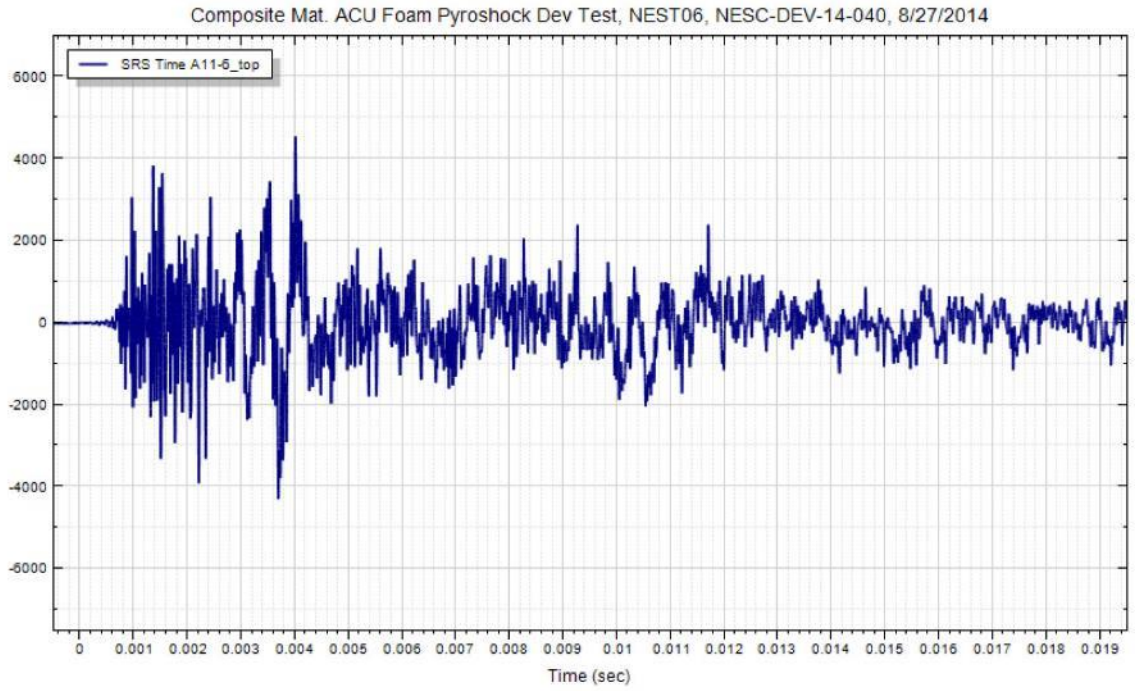
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A9-5_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

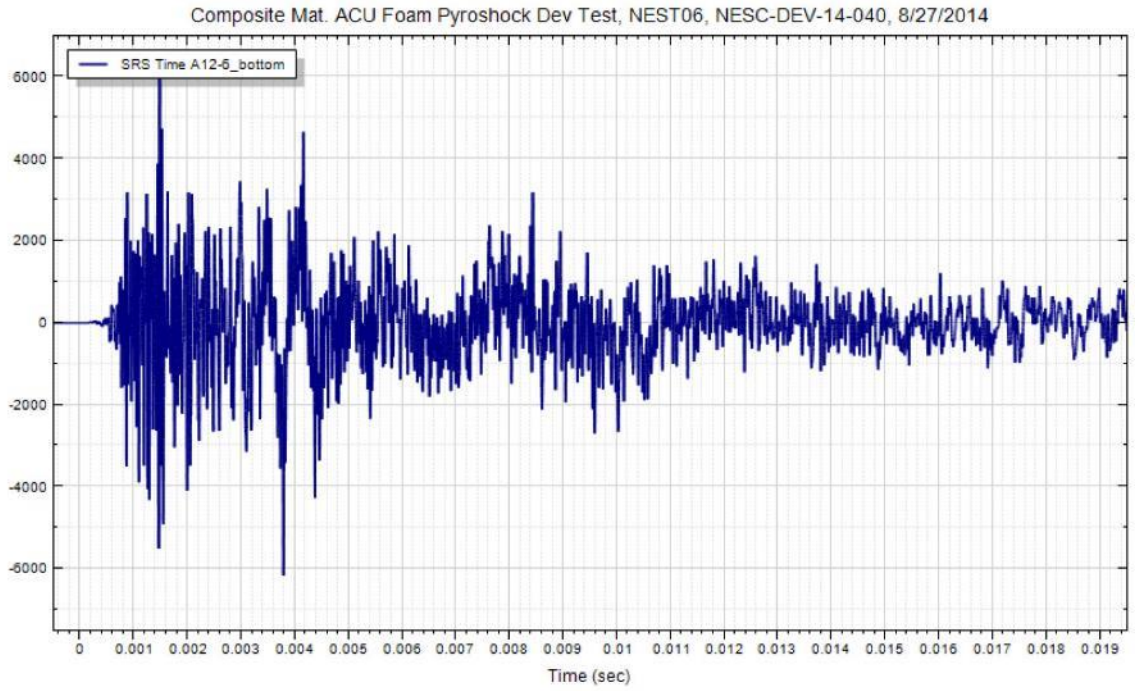
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A10-5_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

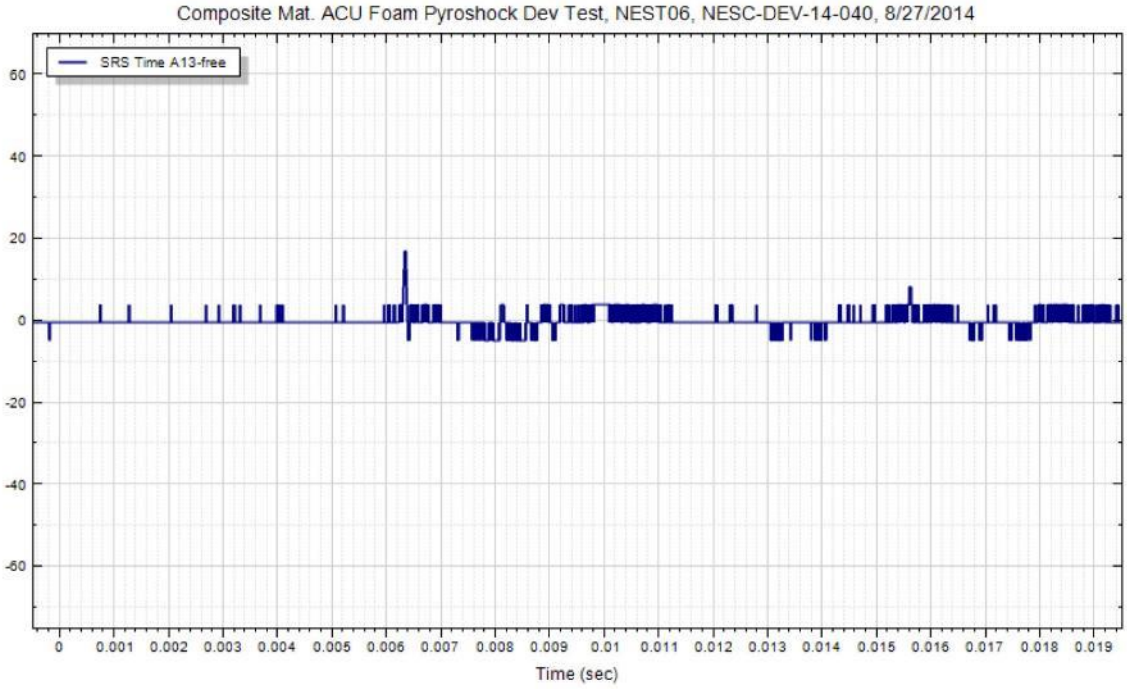
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A11-6_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

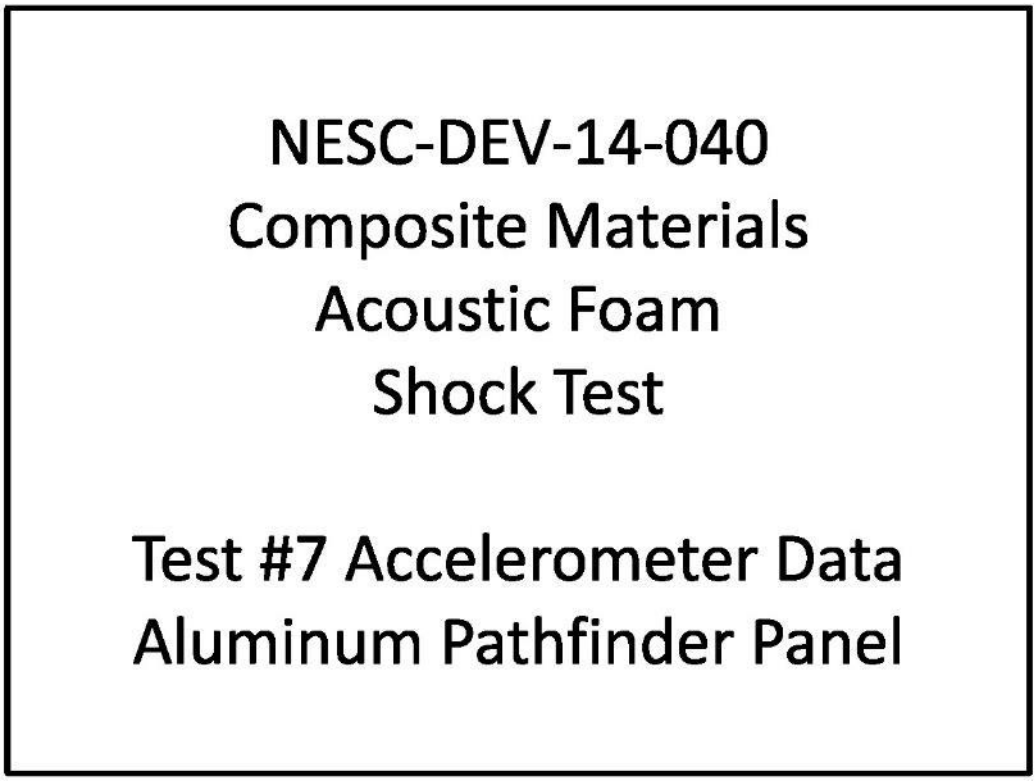
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A12-6_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

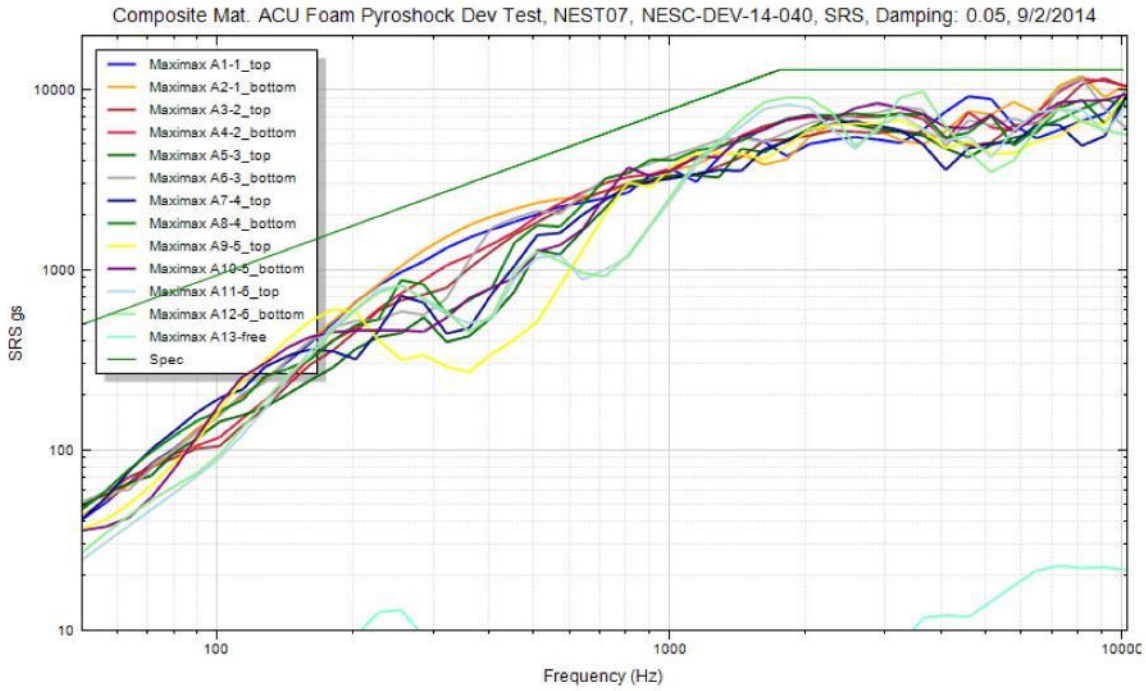
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST06, NESC-DEV-14-040, 8/27/2014
SRS Time A13-free
60
40
20
0
-20
-40
-60
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

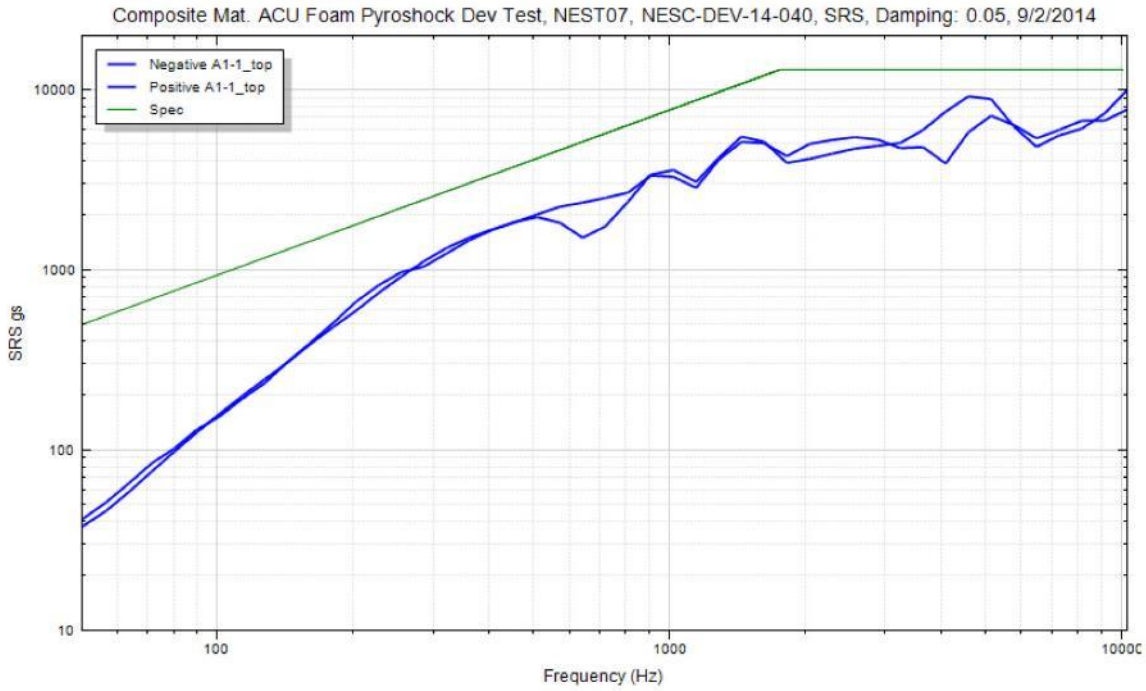
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #7 Accelerometer Data
Aluminum Pathfinder Panel

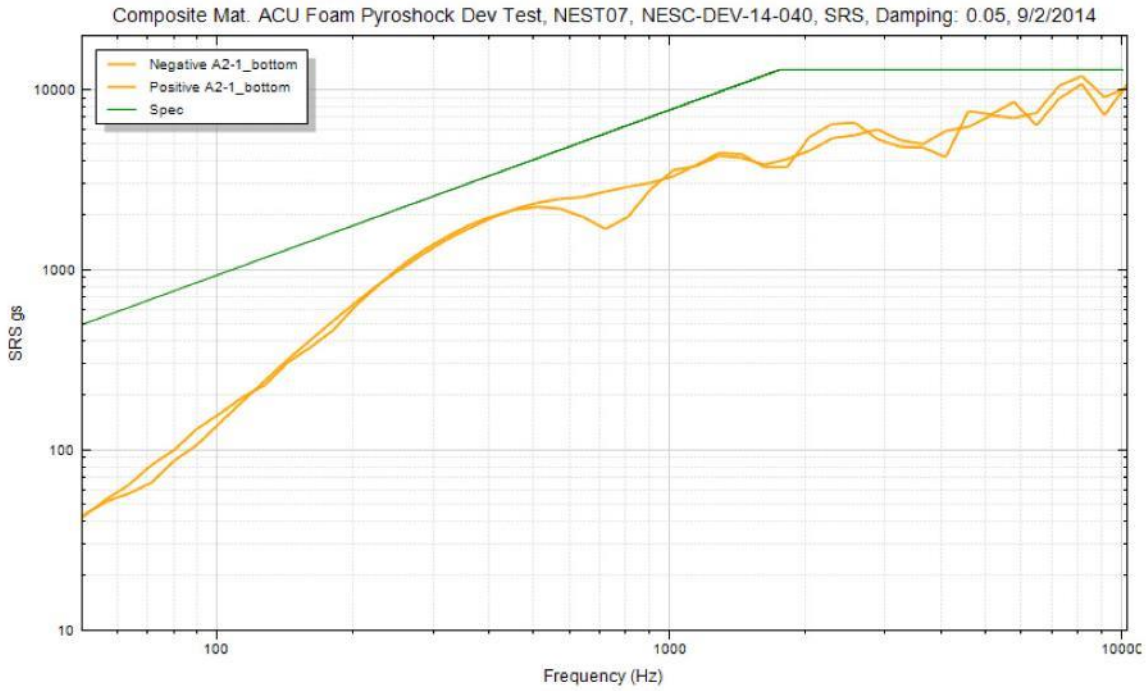
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

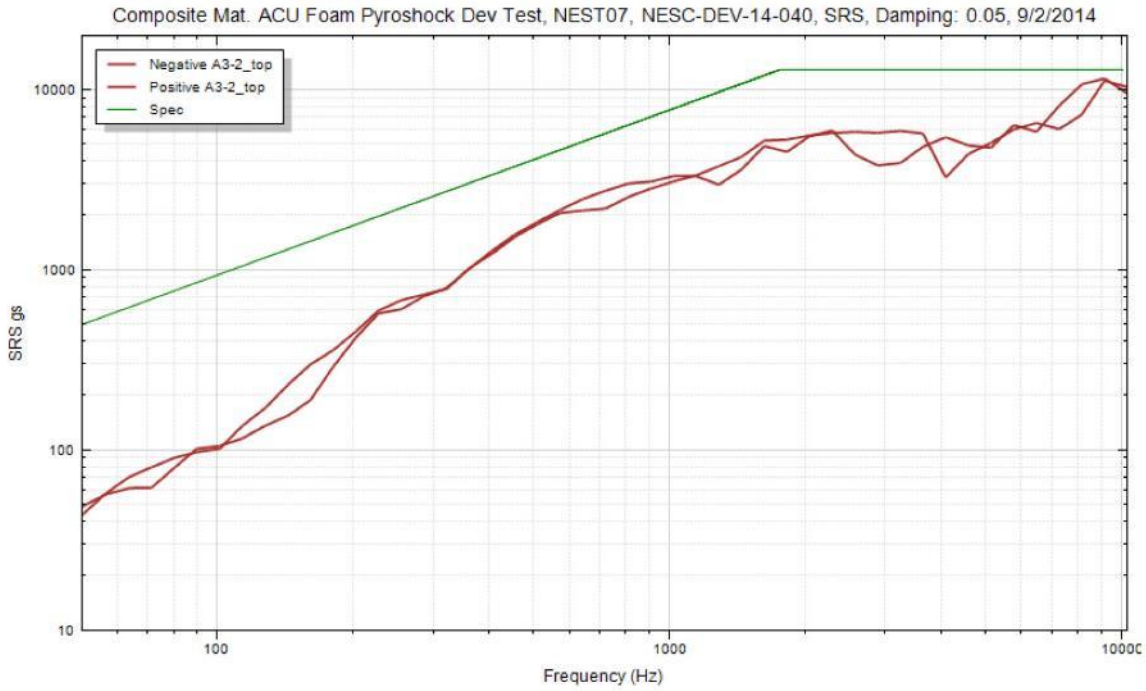
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

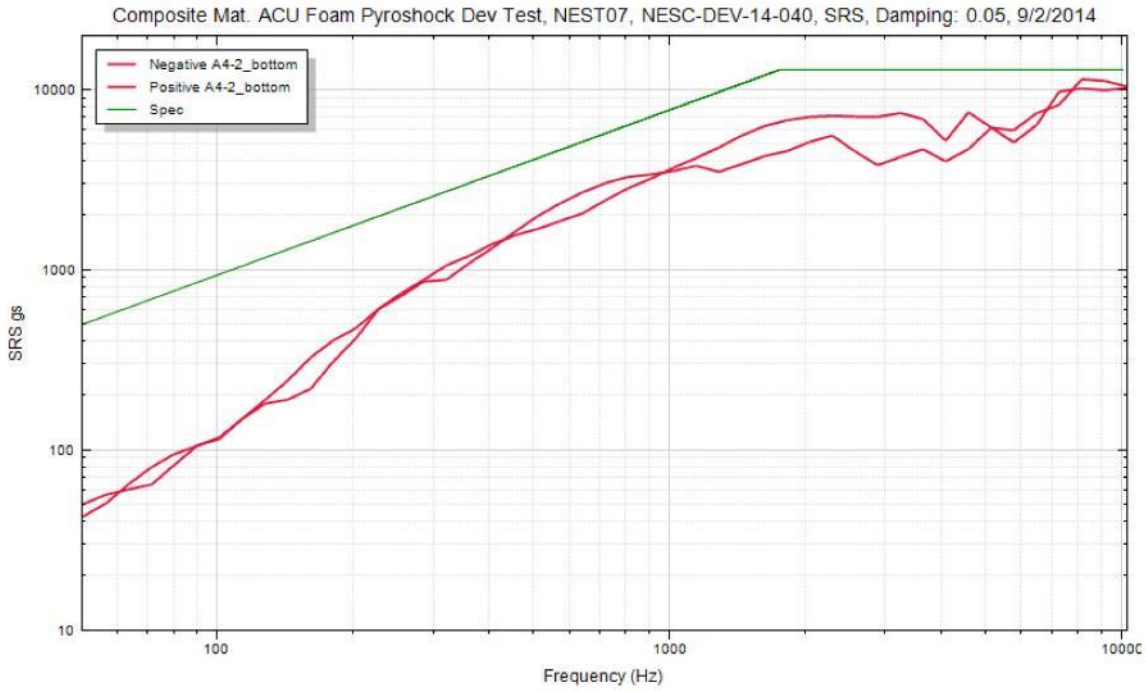
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

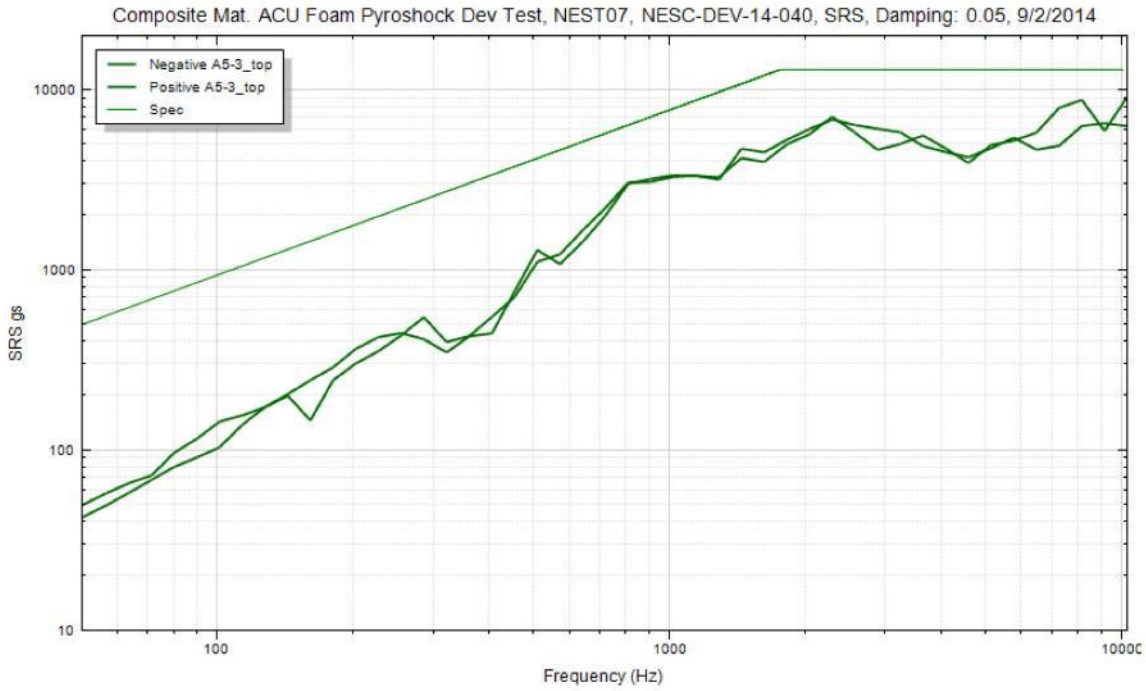
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

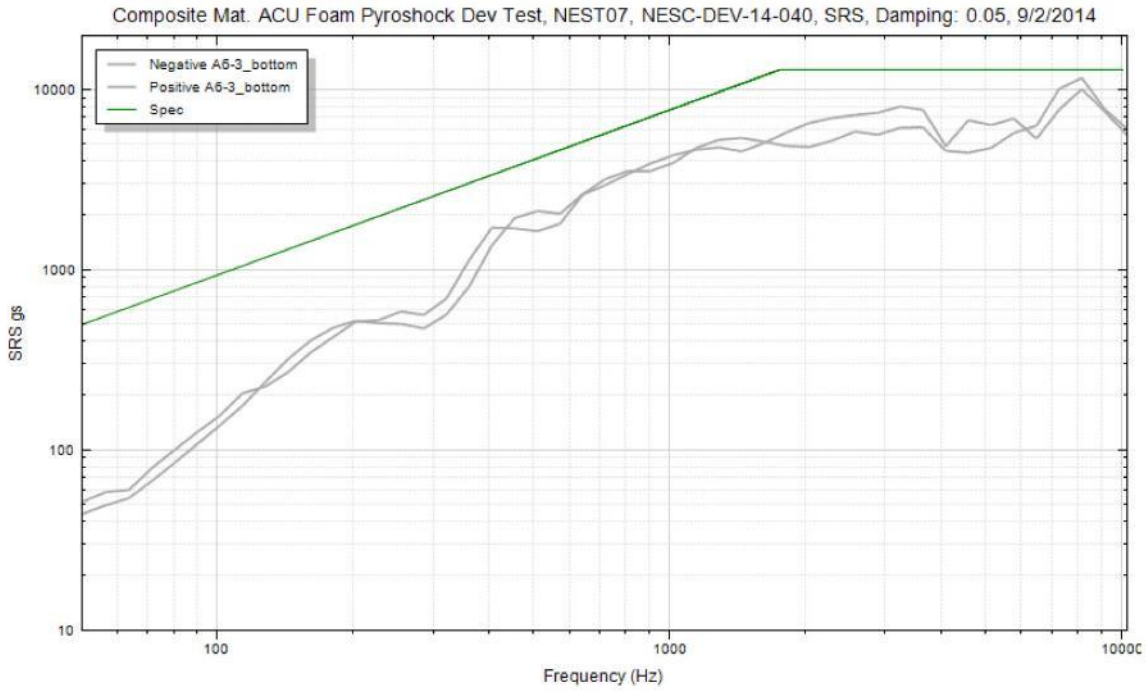
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

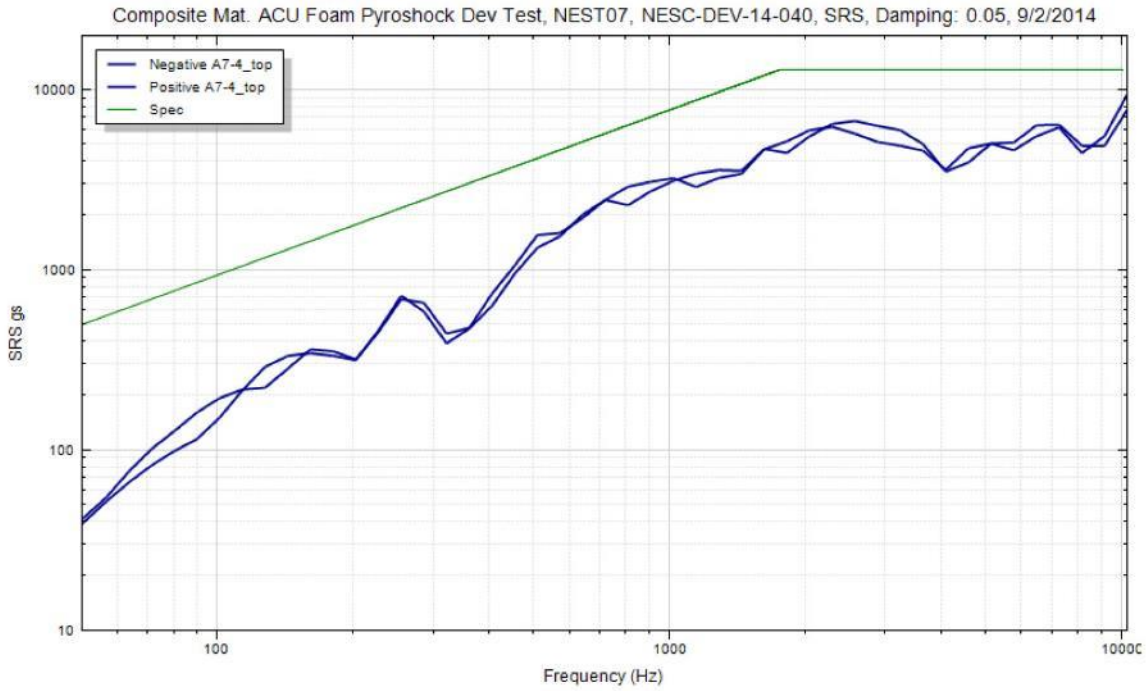
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

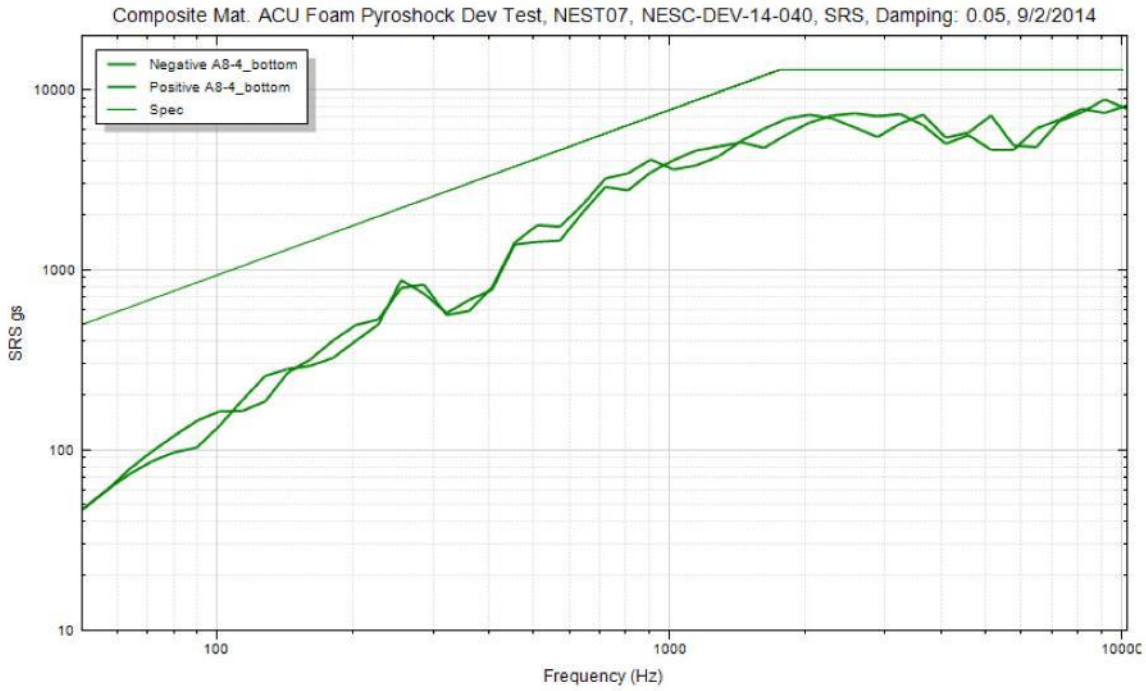
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

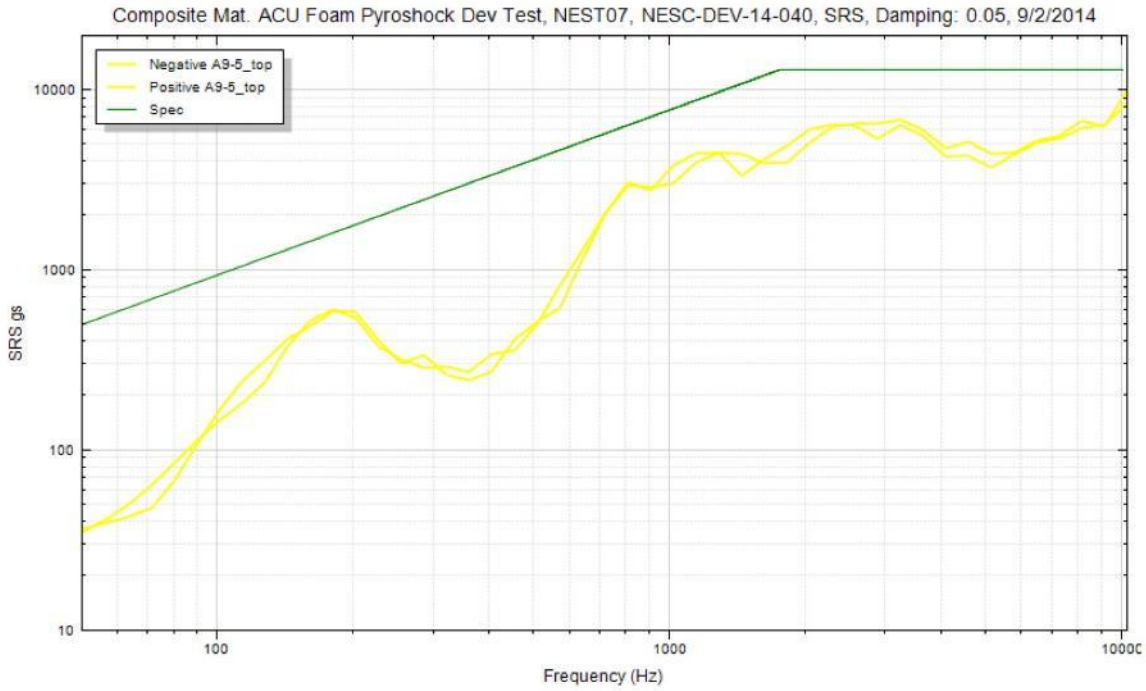
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

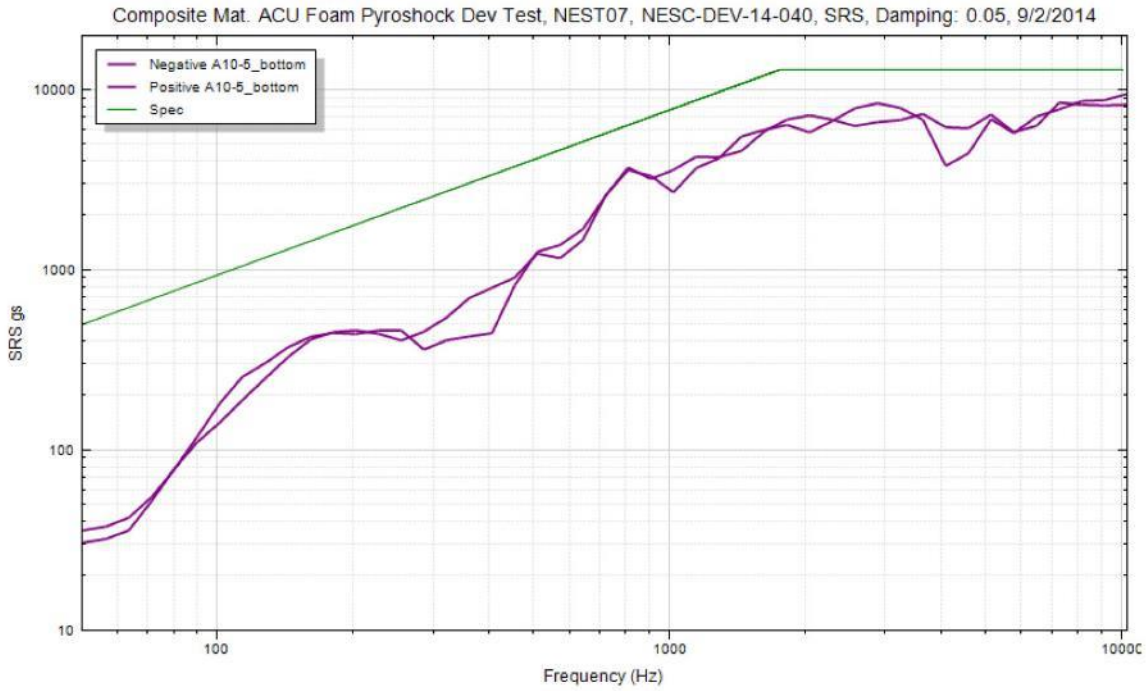
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

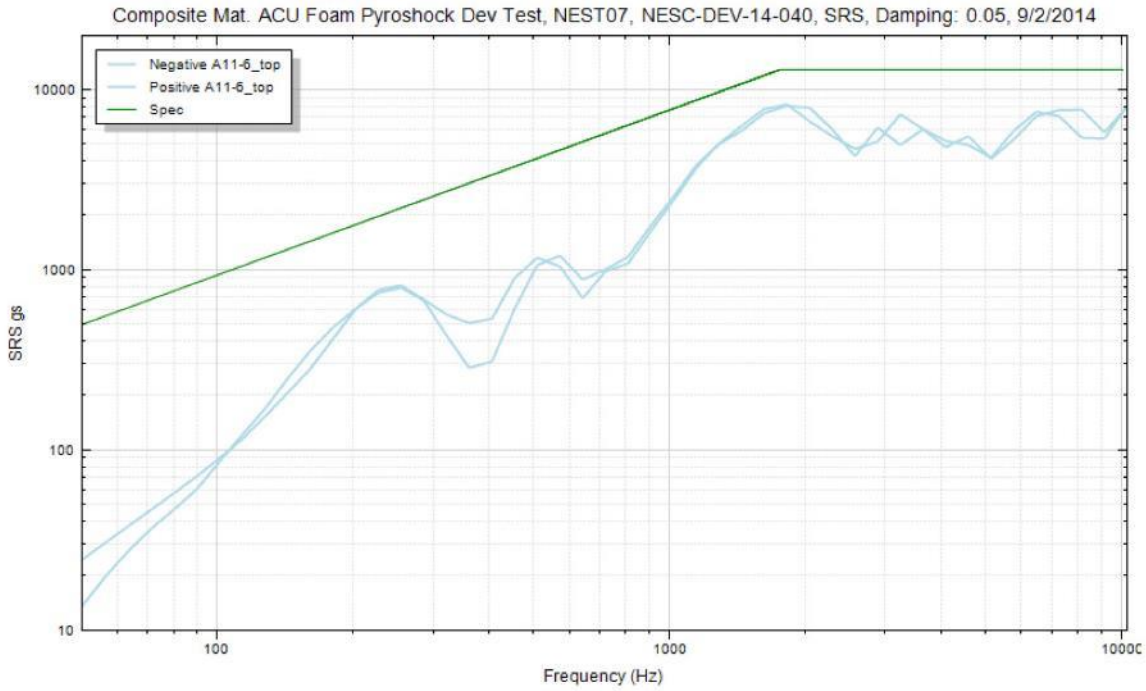
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

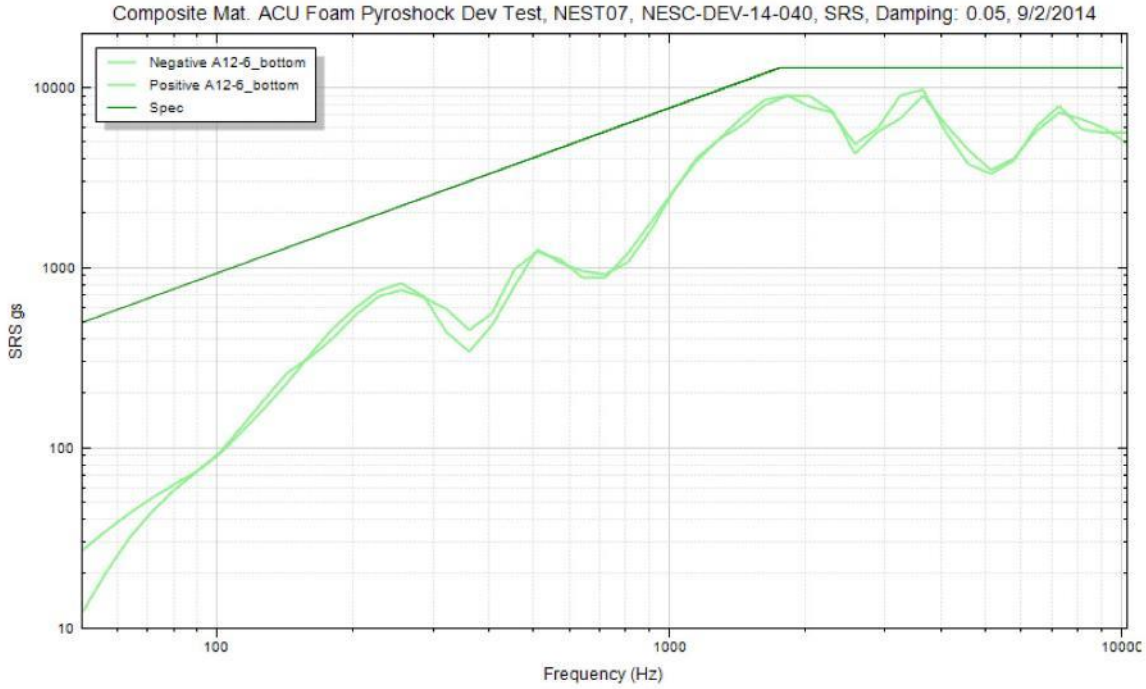
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

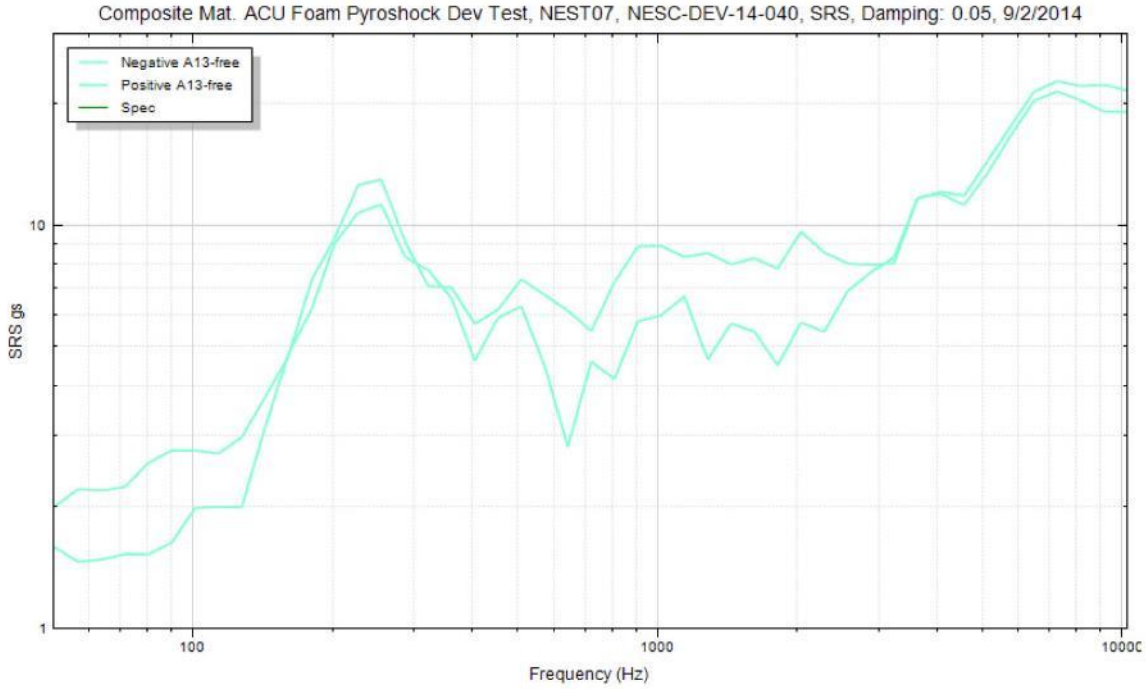
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

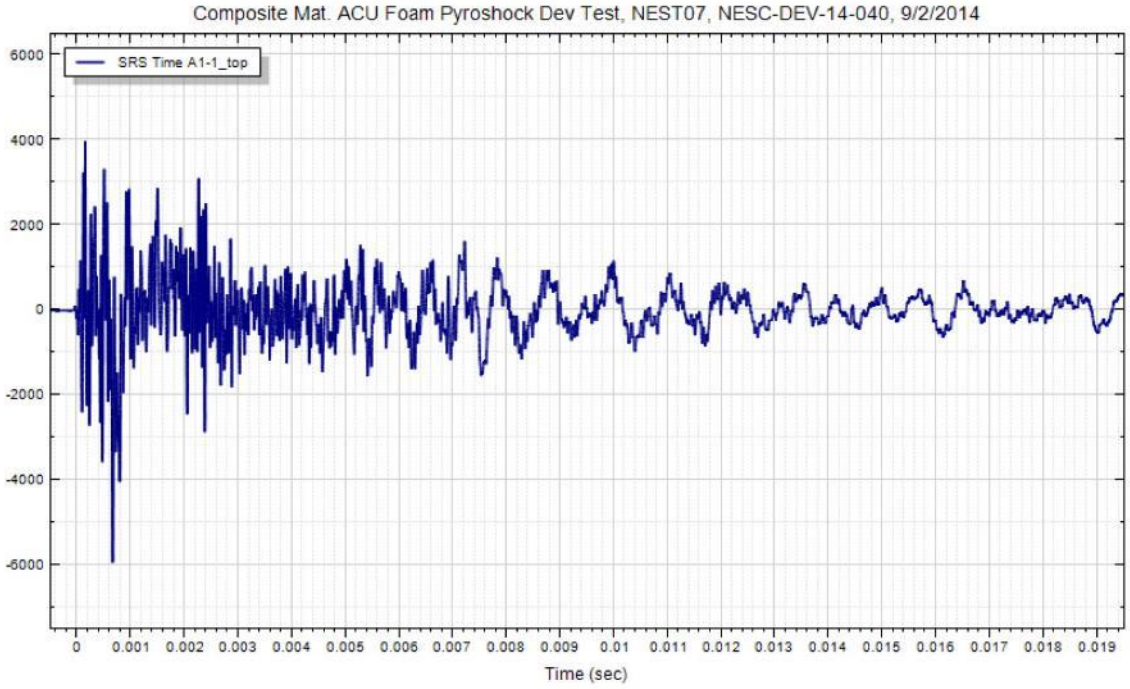
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

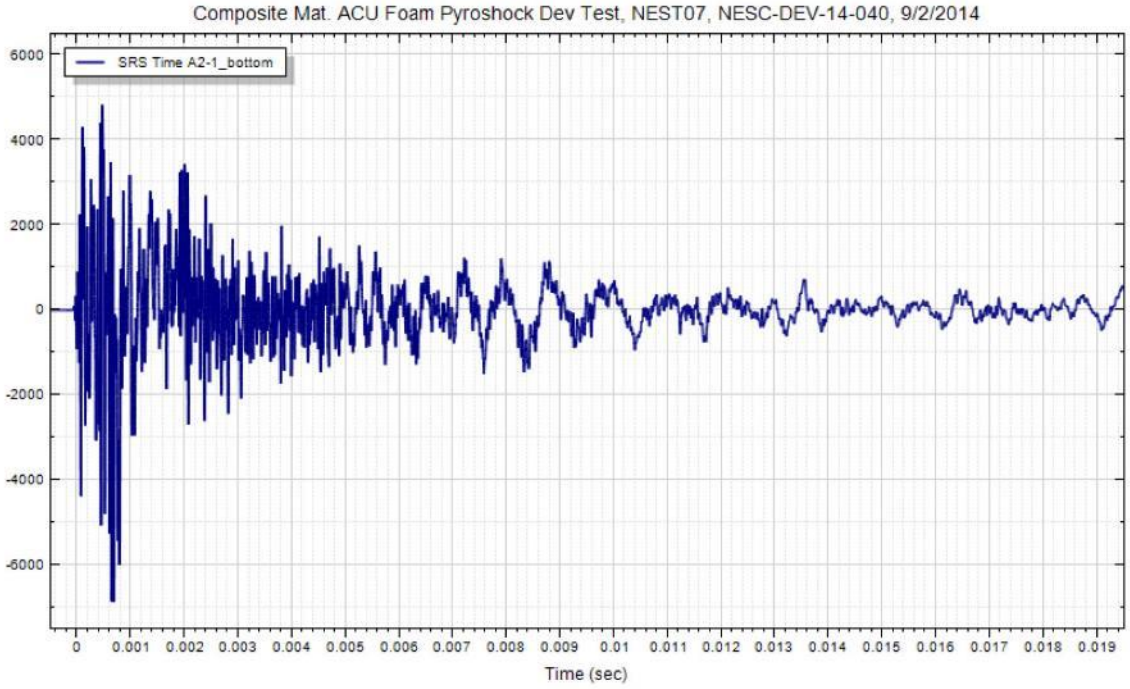
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, SRS, Damping: 0.05, 9/2/2014
Negative A13-free
Positive A13-free
Spec
SRS gs
10
1
100
1000
Frequency (Hz)

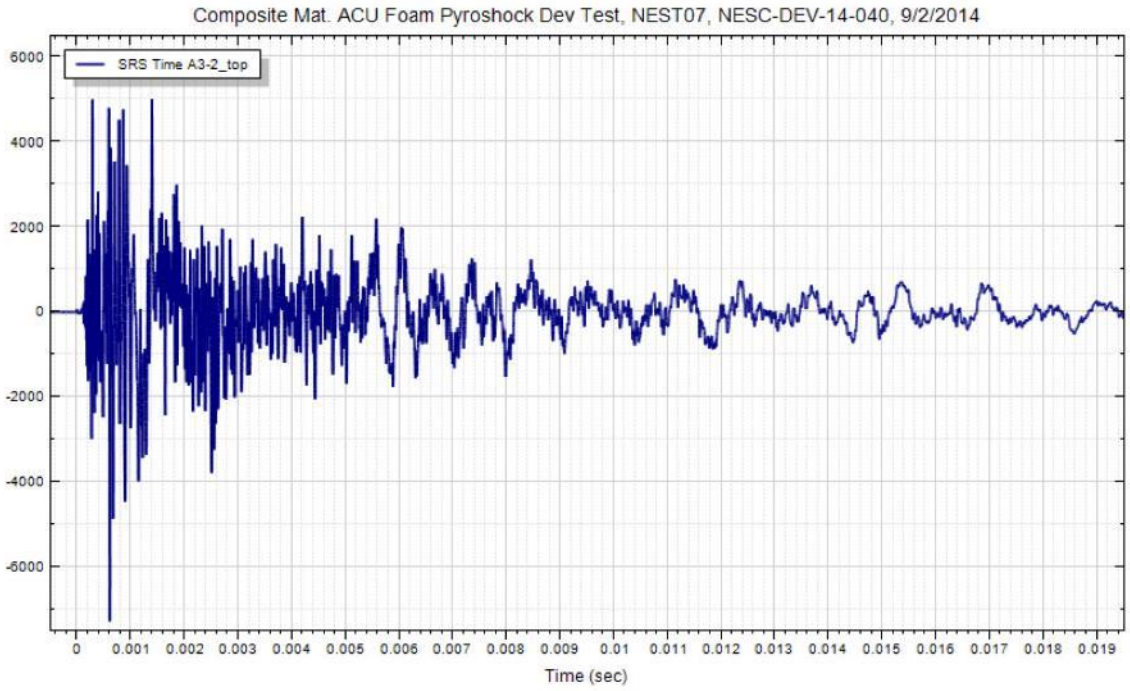
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A1-1_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

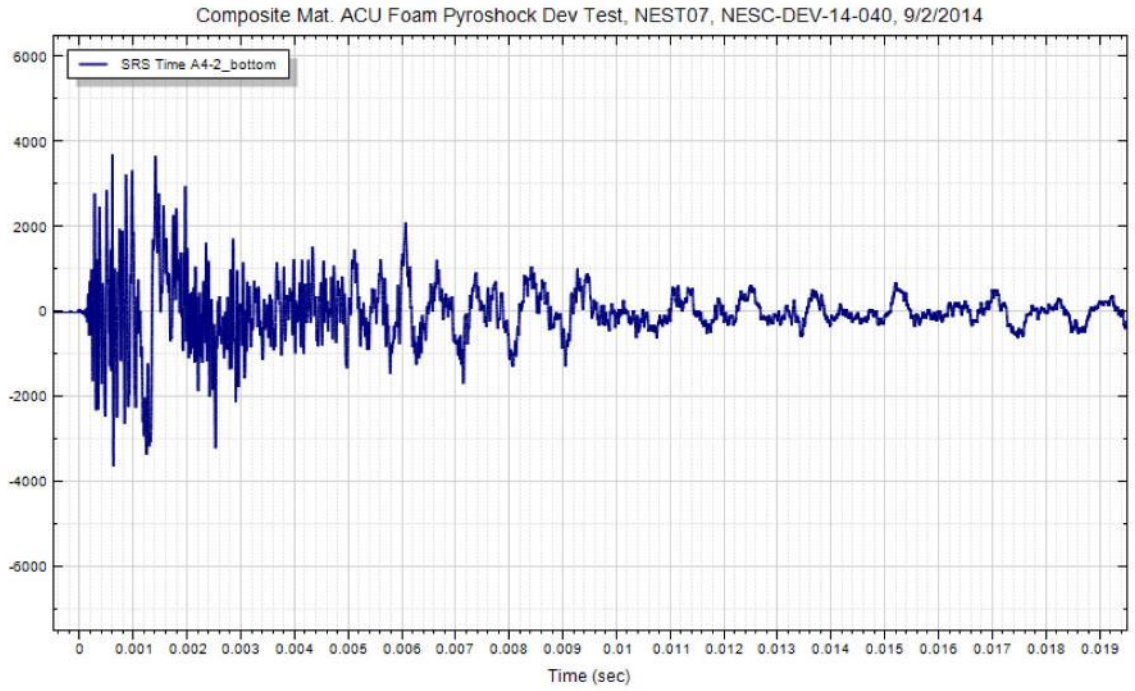
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A2-1_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

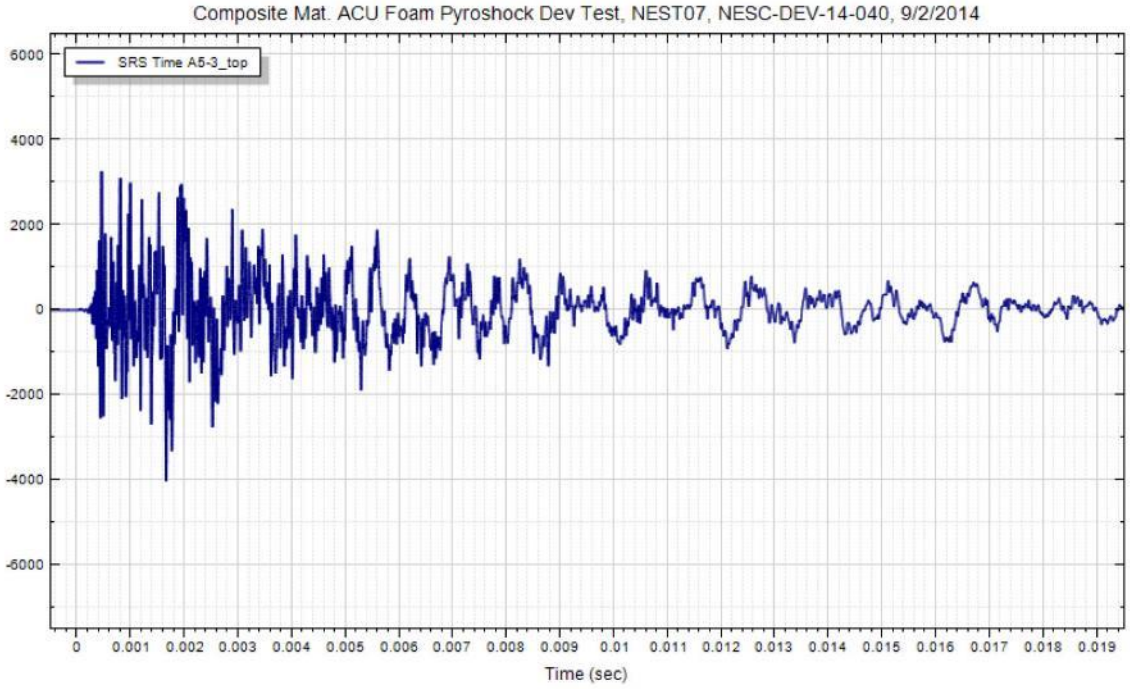
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A3-2_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

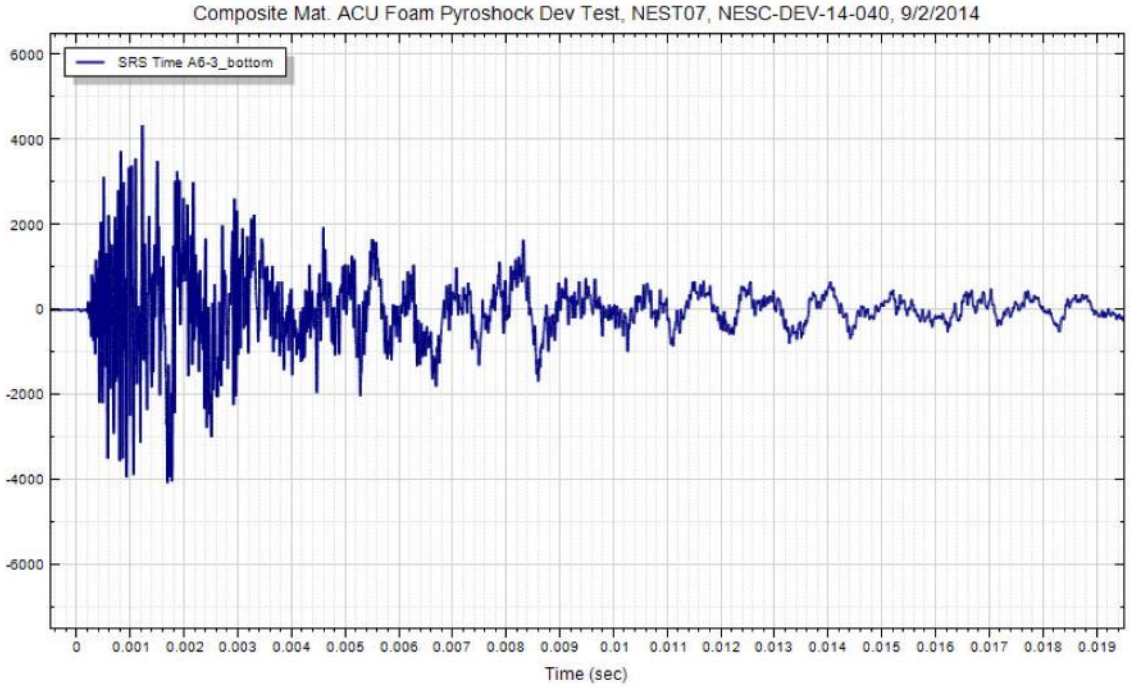
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A4-2_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

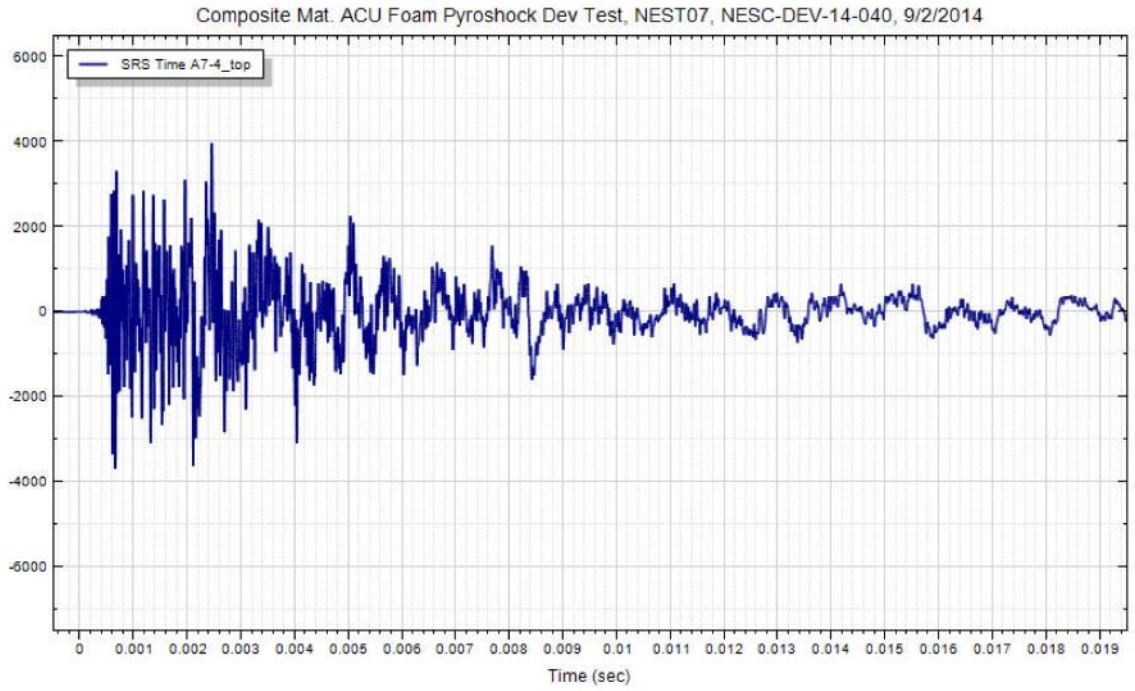
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A5-3_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

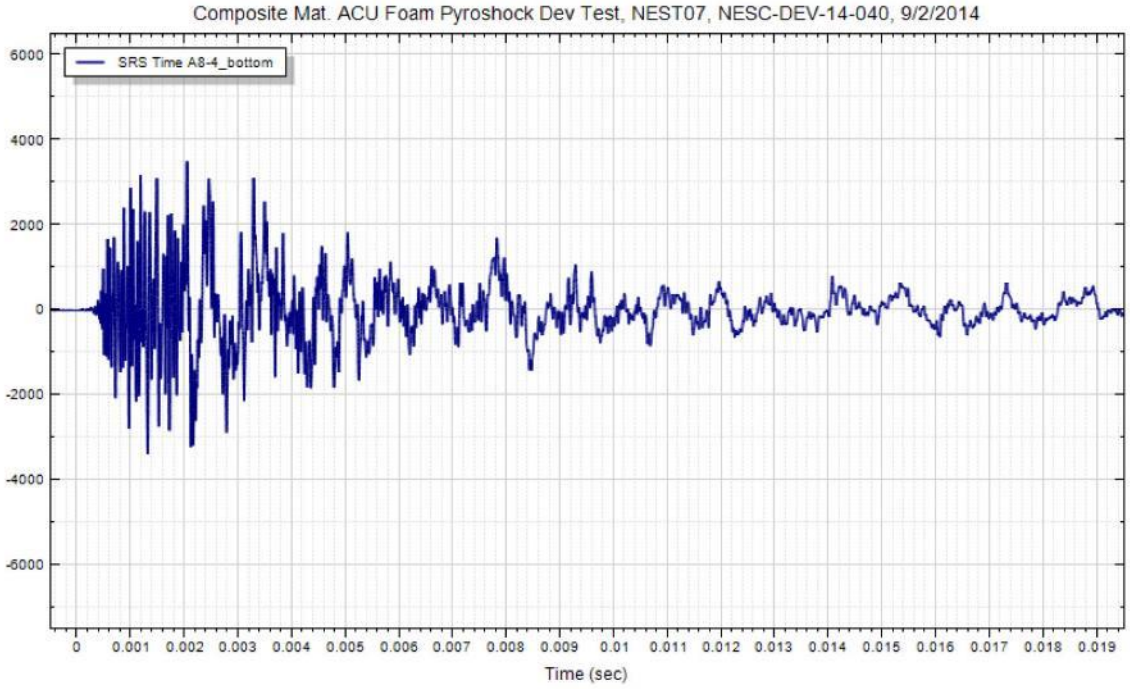
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A6-3_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

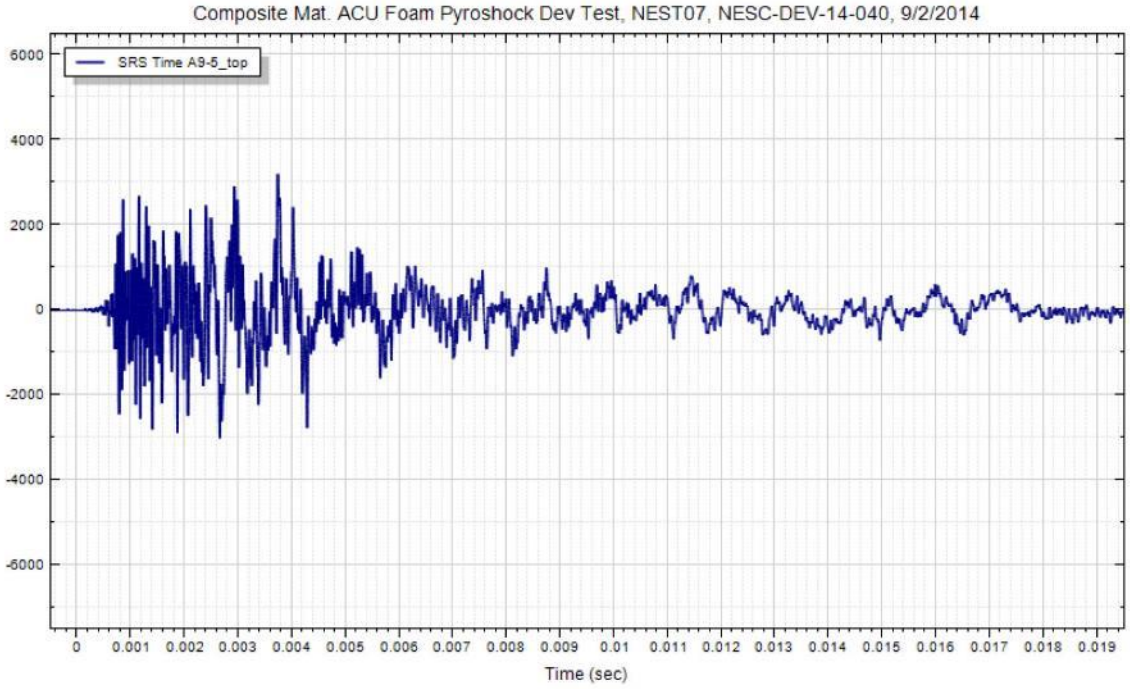
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A7-4_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

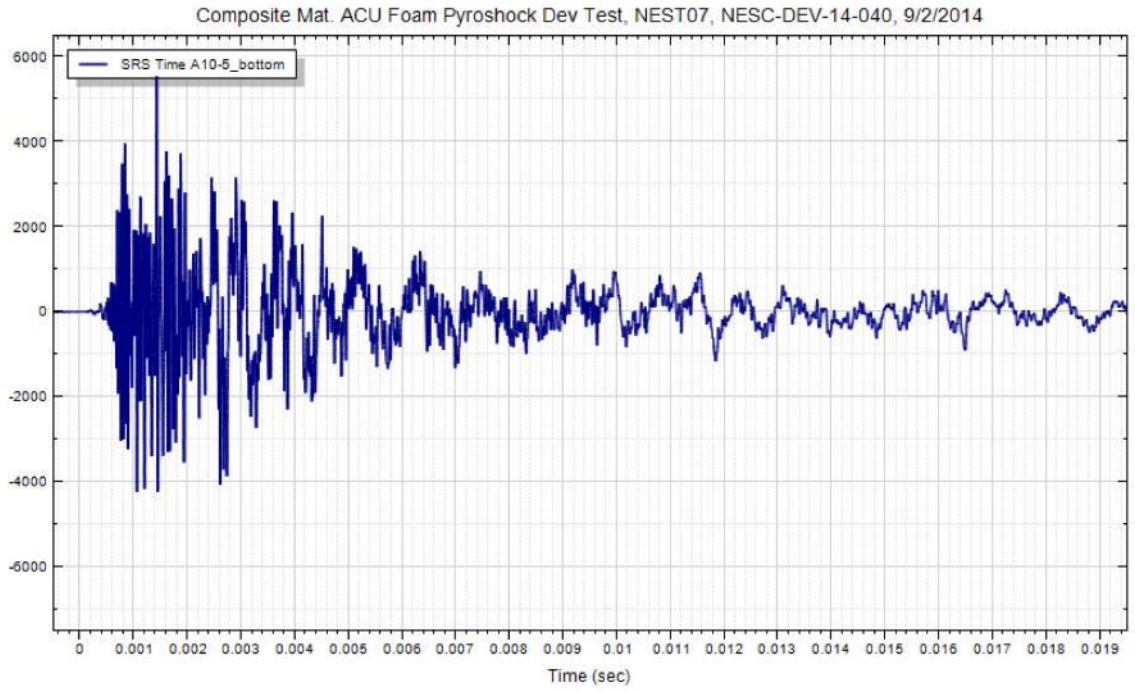
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A8-4_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

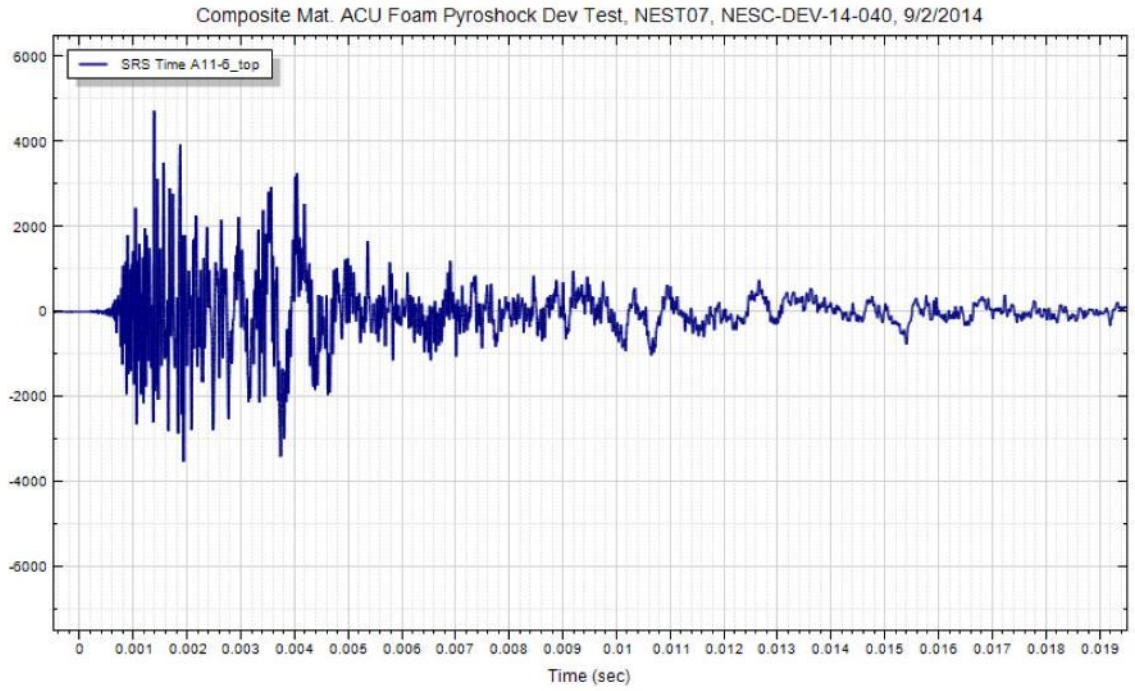
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A9-5_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

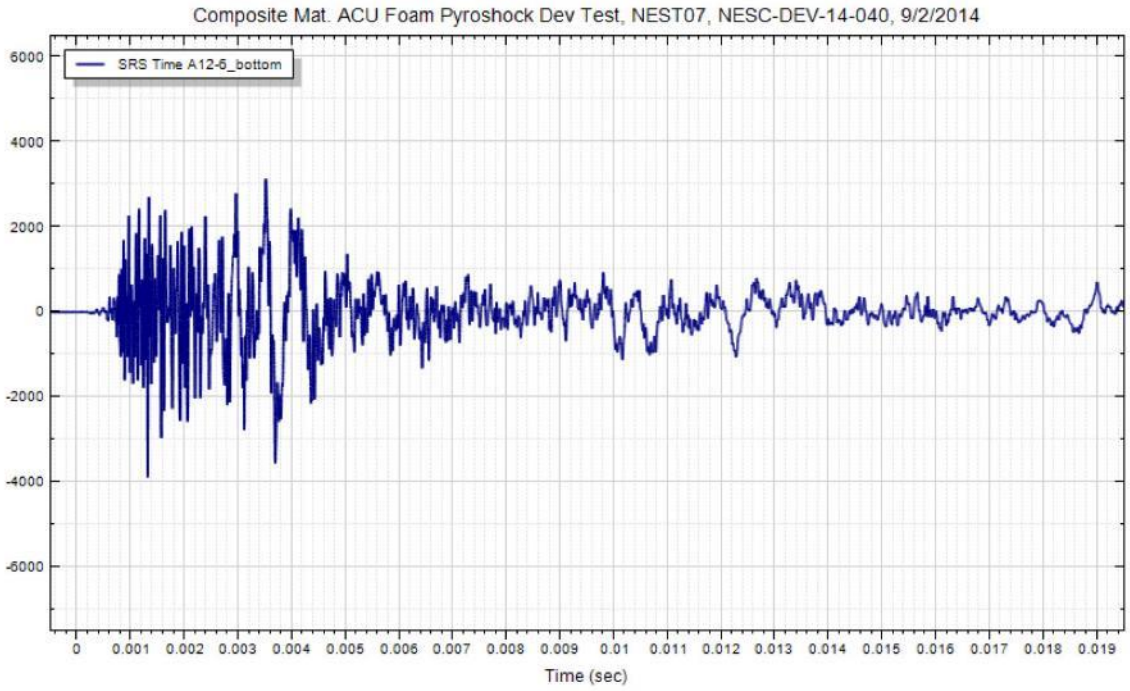
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A10-5_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

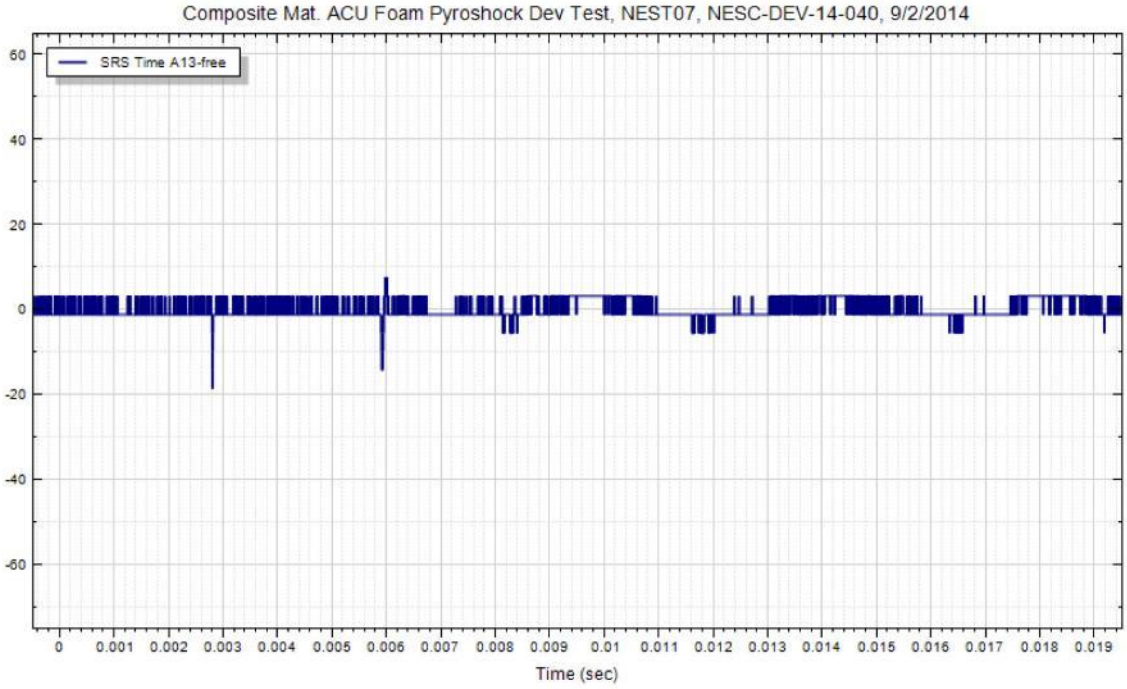
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A11-6_top
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A12-6_bottom
6000
4000
2000
0
-2000
-4000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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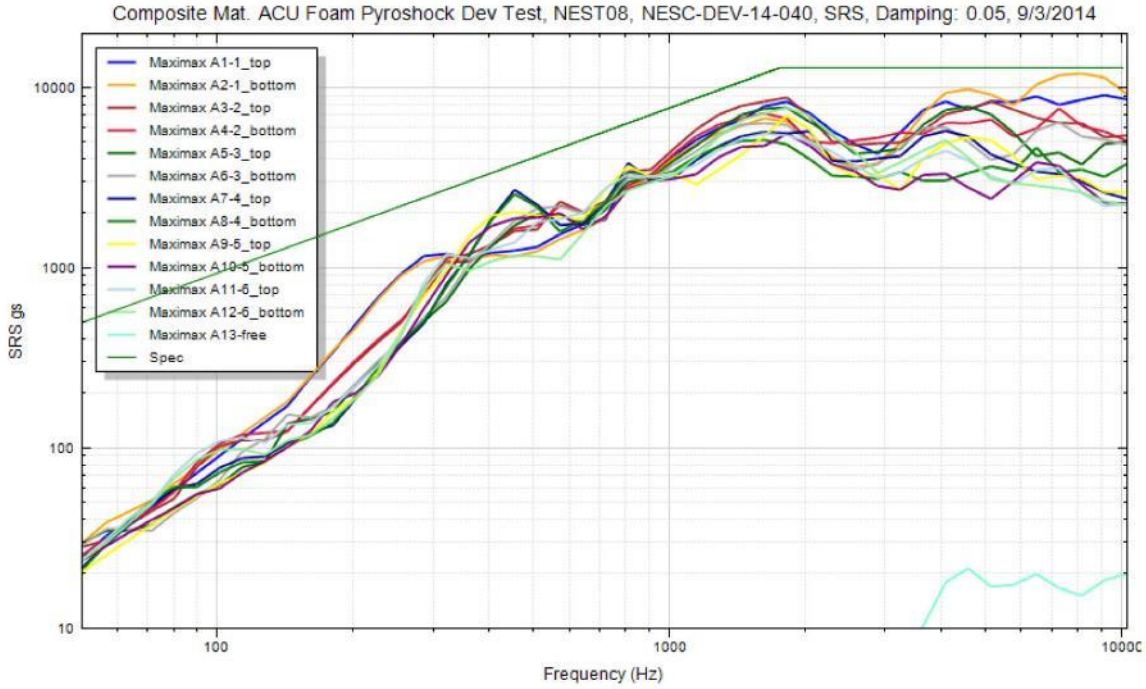

Composite Mat. ACU Foam Pyroshock Dev Test, NEST07, NESC-DEV-14-040, 9/2/2014
SRS Time A13-free
60
40
20
0
-20
-40
-60
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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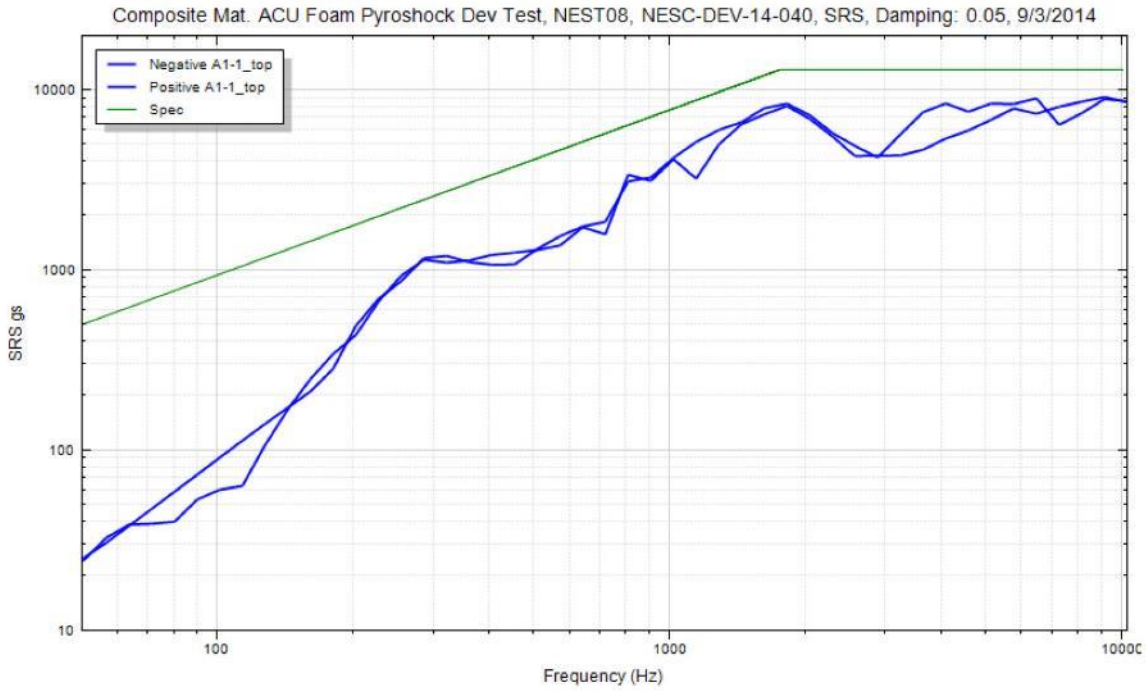
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #8 Accelerometer Data
Panel 0332A017

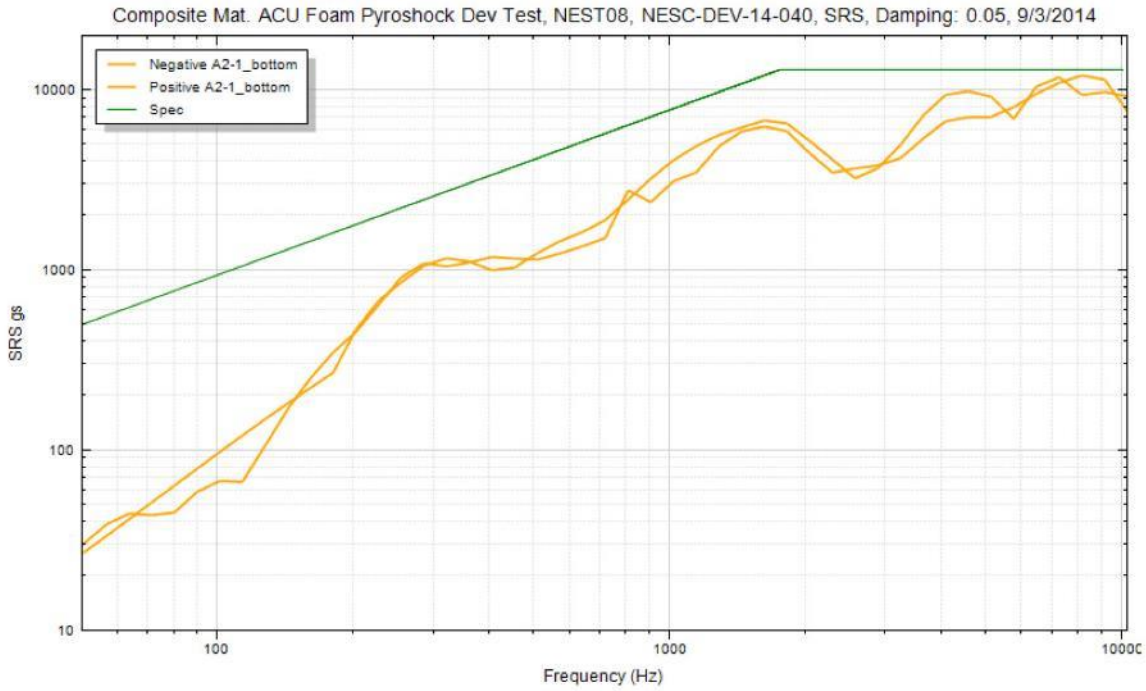
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

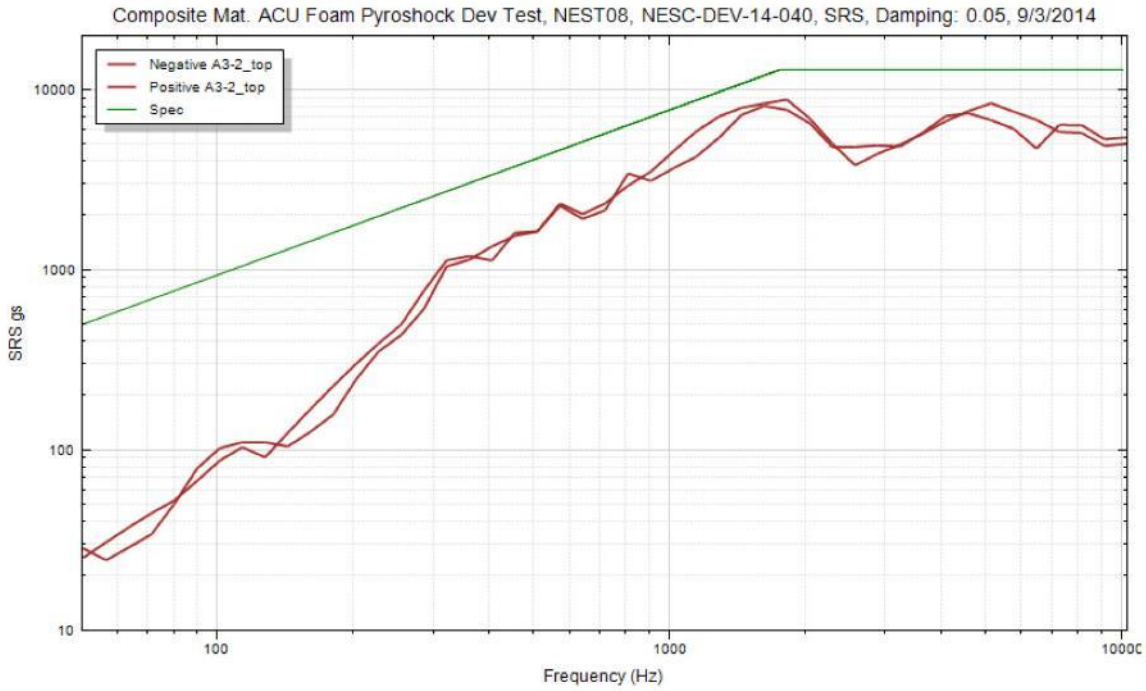
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

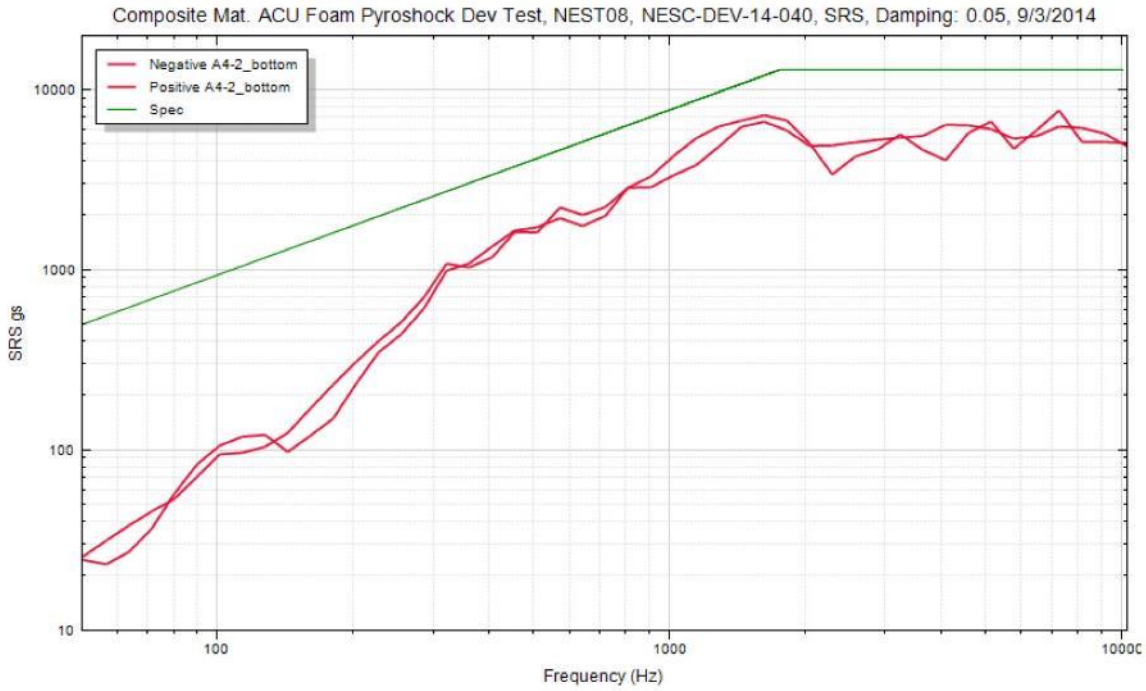
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS g's
100
1000
10000
Frequency (Hz)

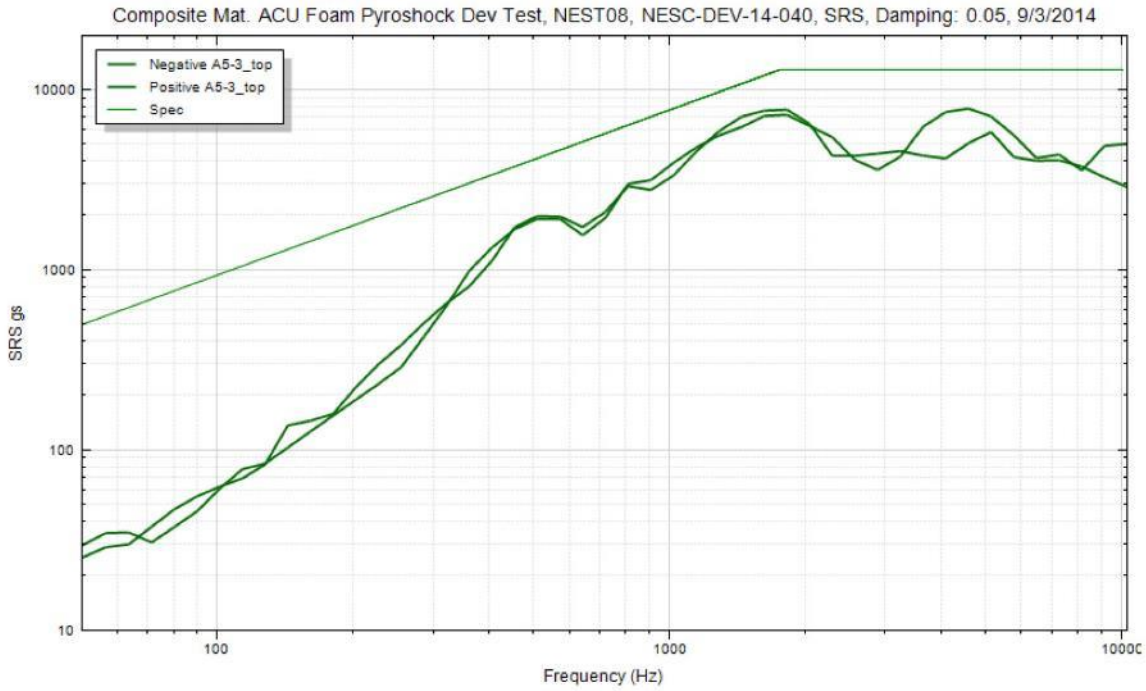
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

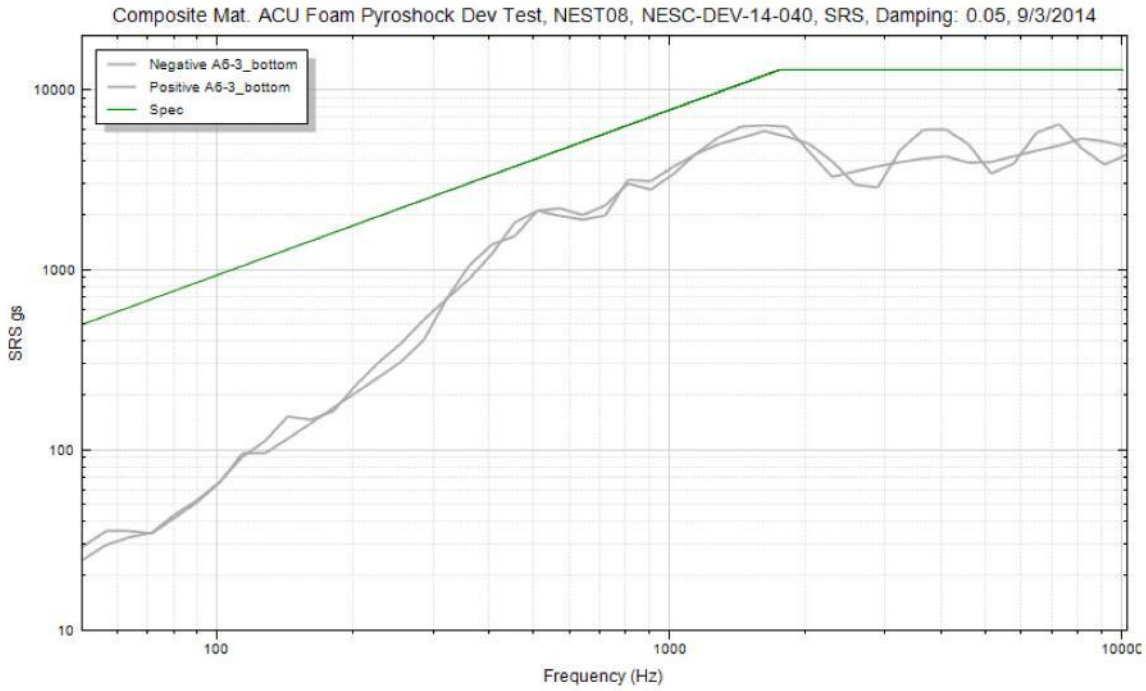
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

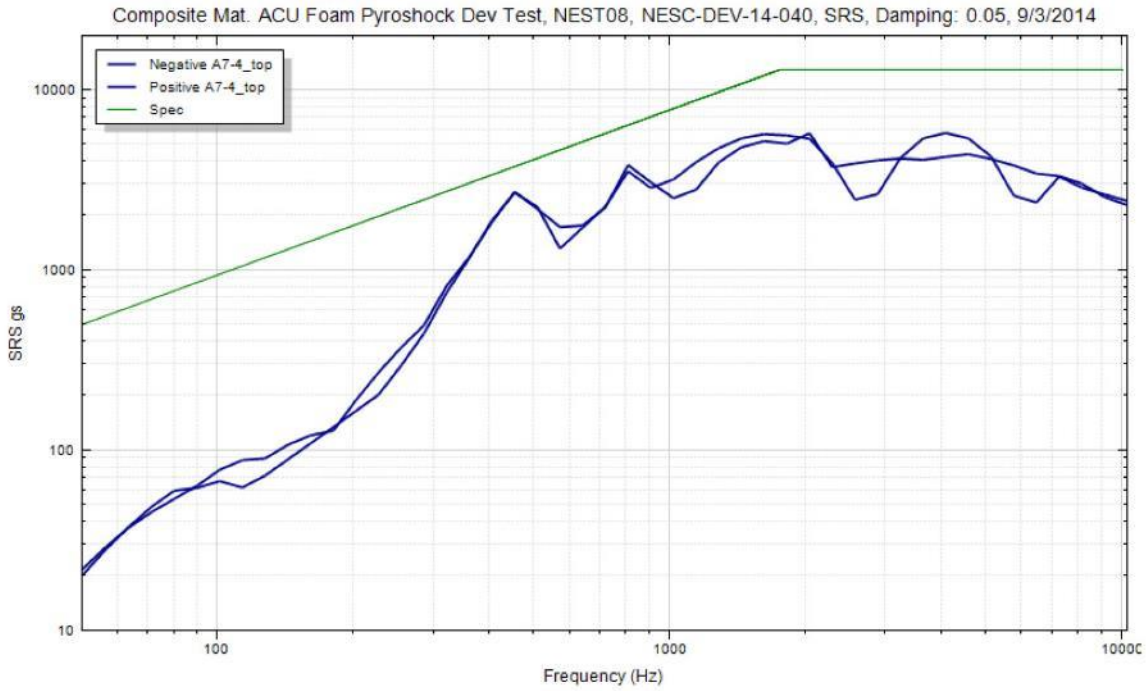
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

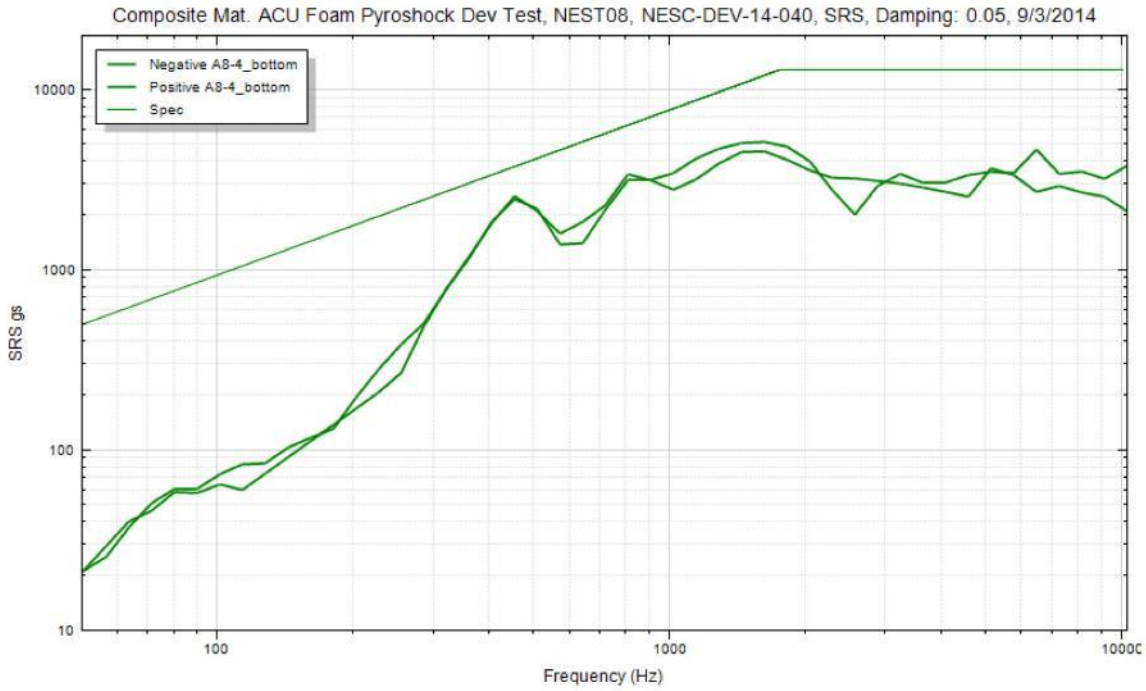
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

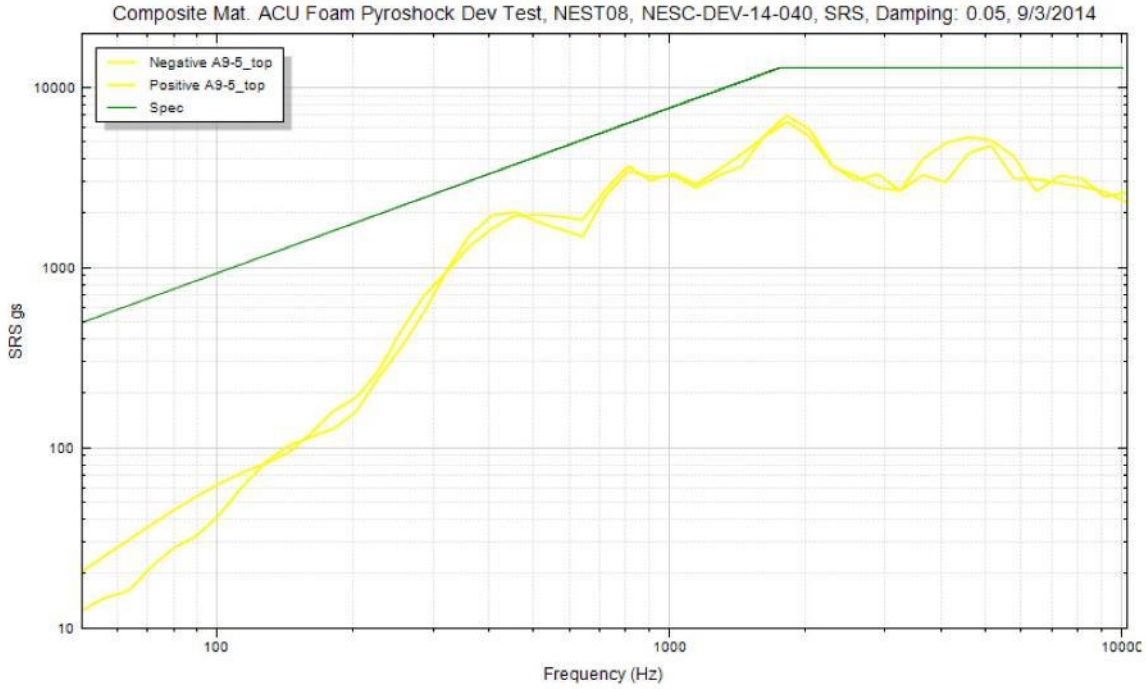
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

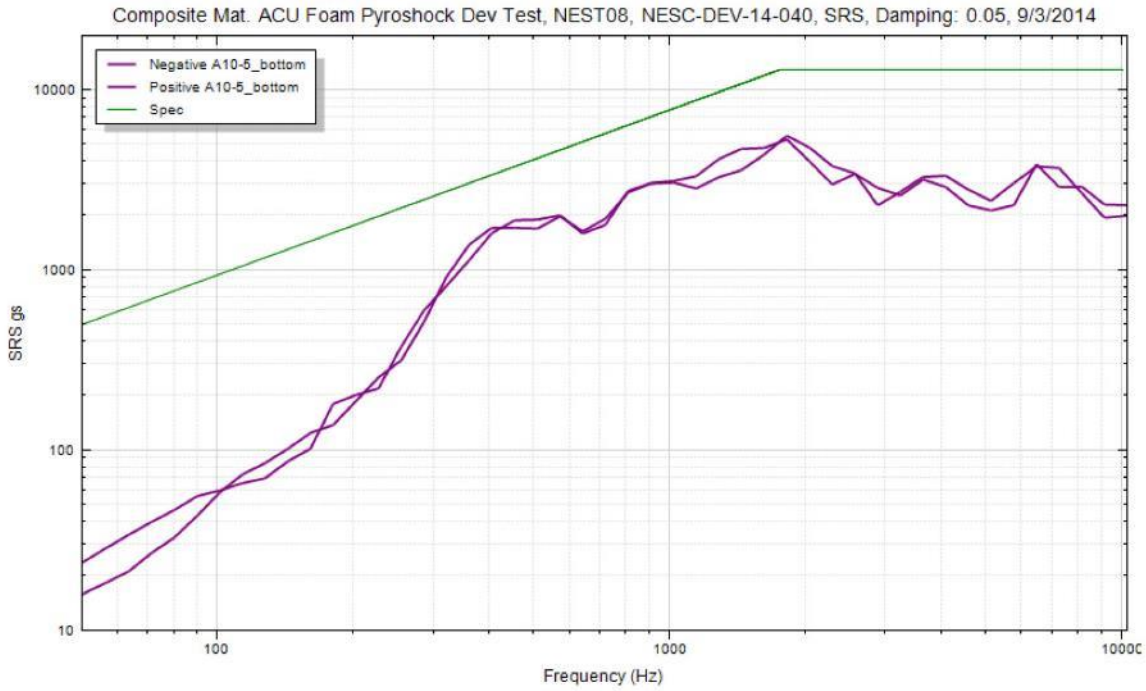
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

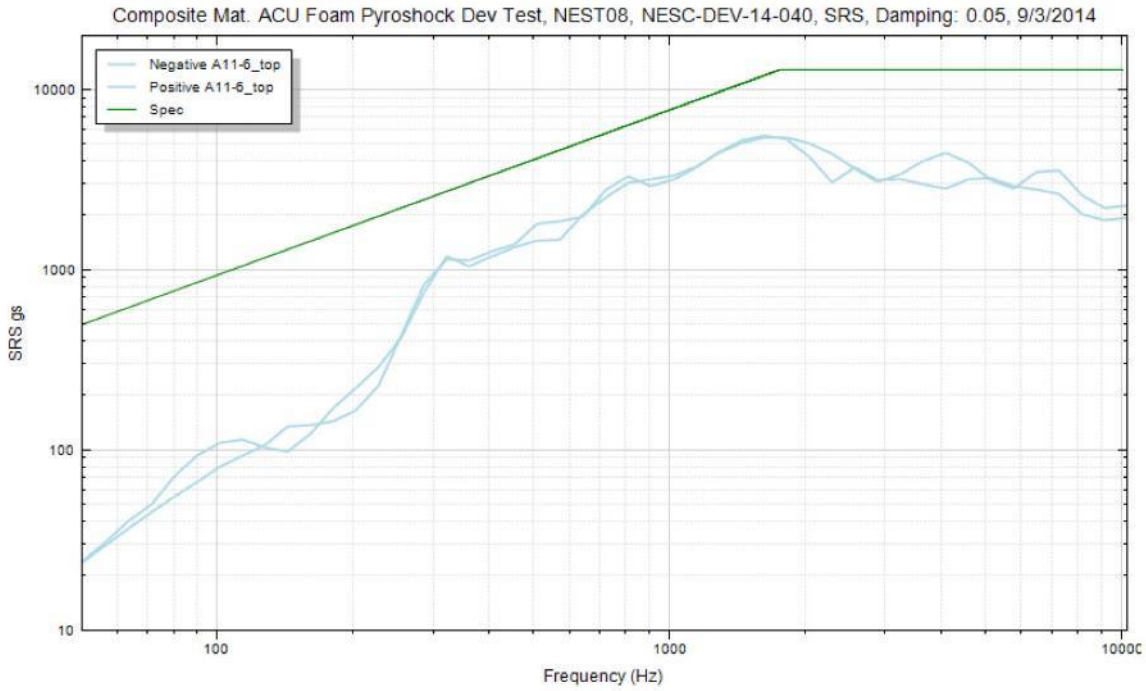
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS g's
100
1000
10000
Frequency (Hz)

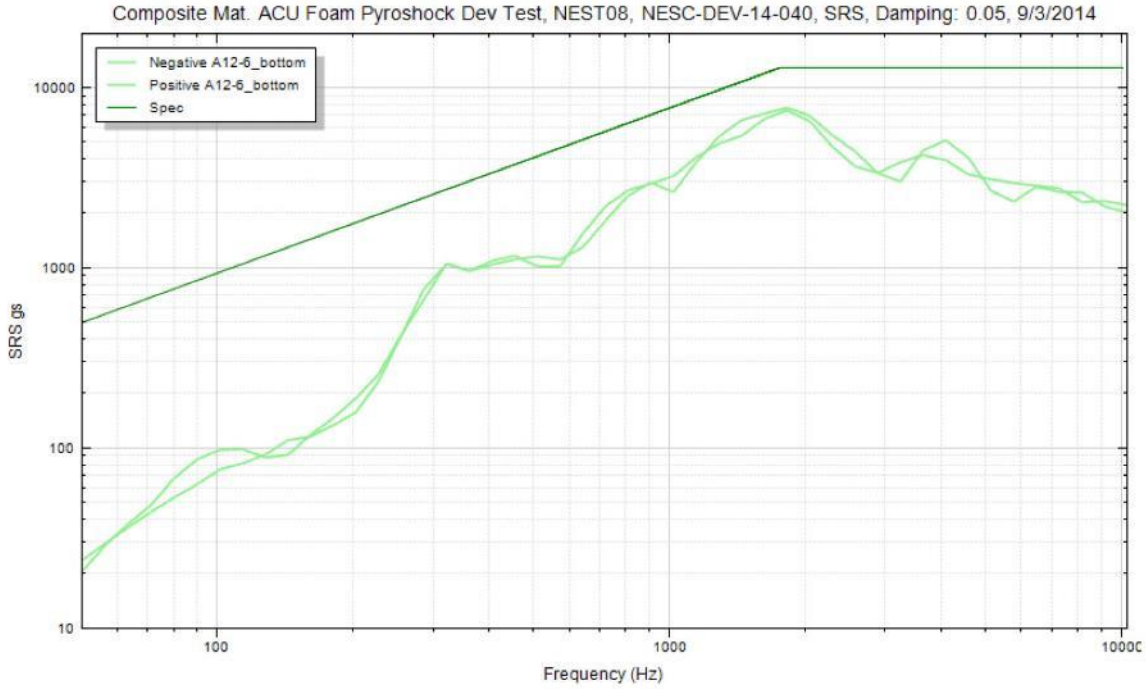
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

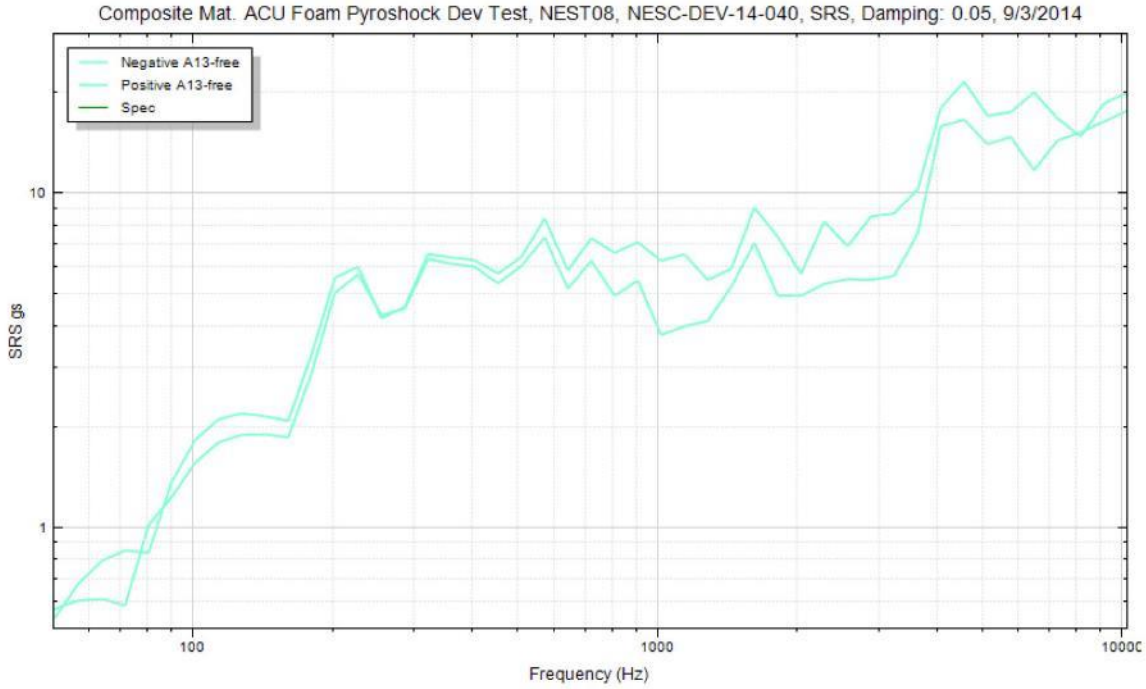
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

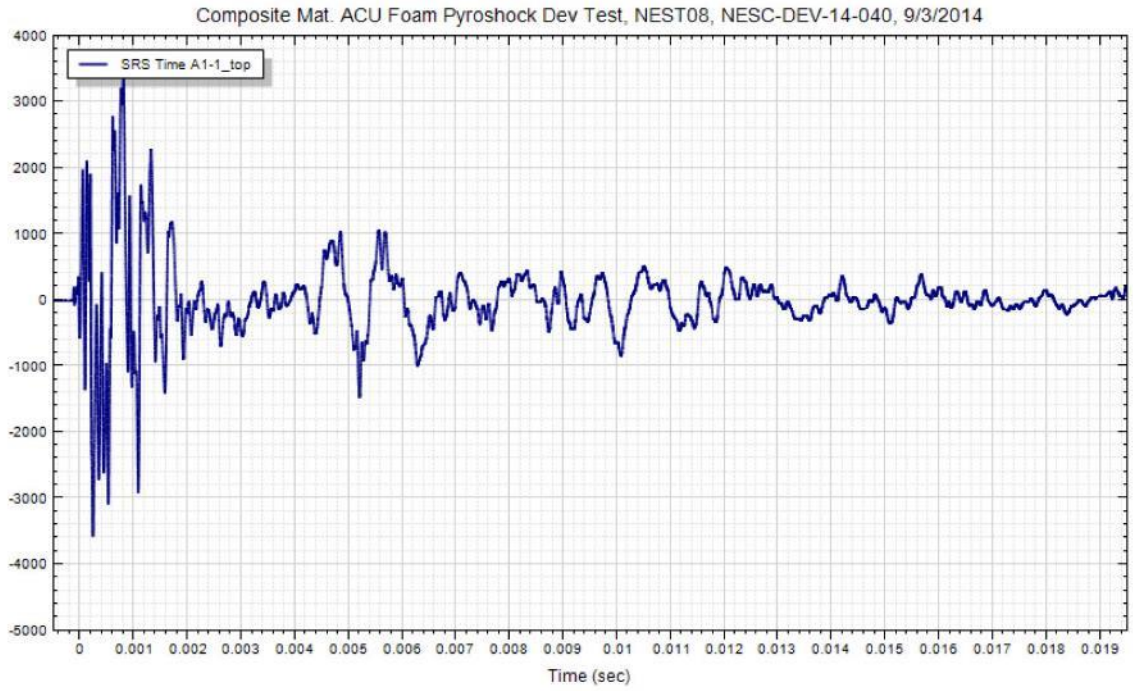
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

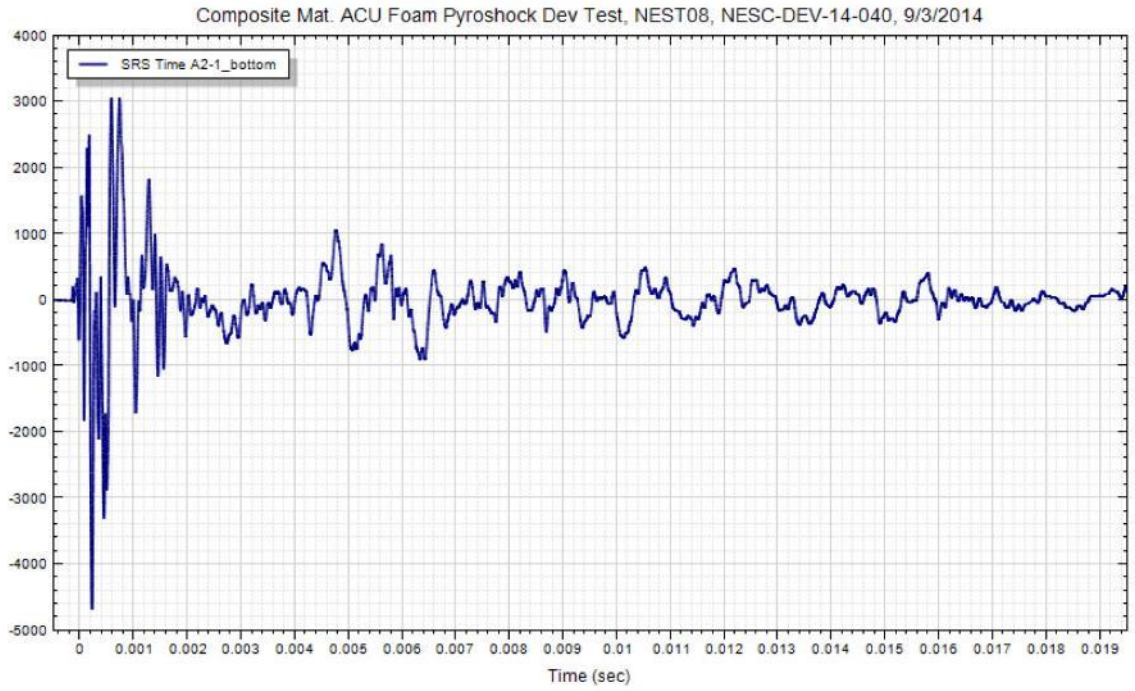
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, SRS, Damping: 0.05, 9/3/2014
Negative A13-free
Positive A13-free
Spec
SRS gs
10
1
100
1000
10000
Frequency (Hz)

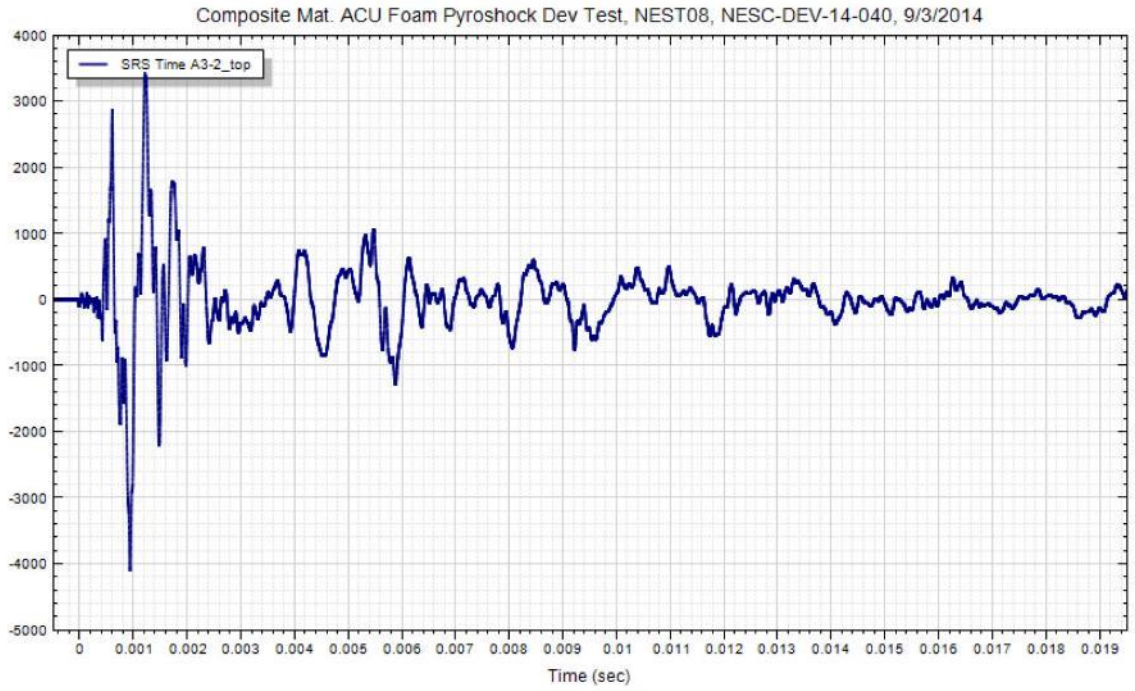
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A1-1_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

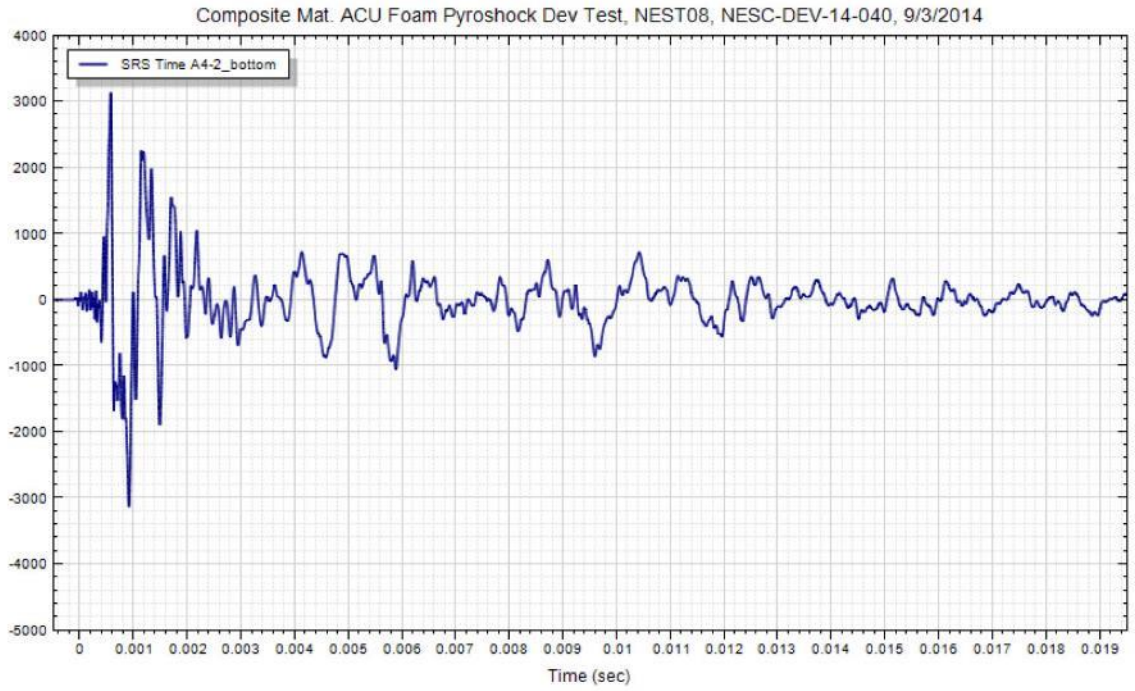
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A2-1_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

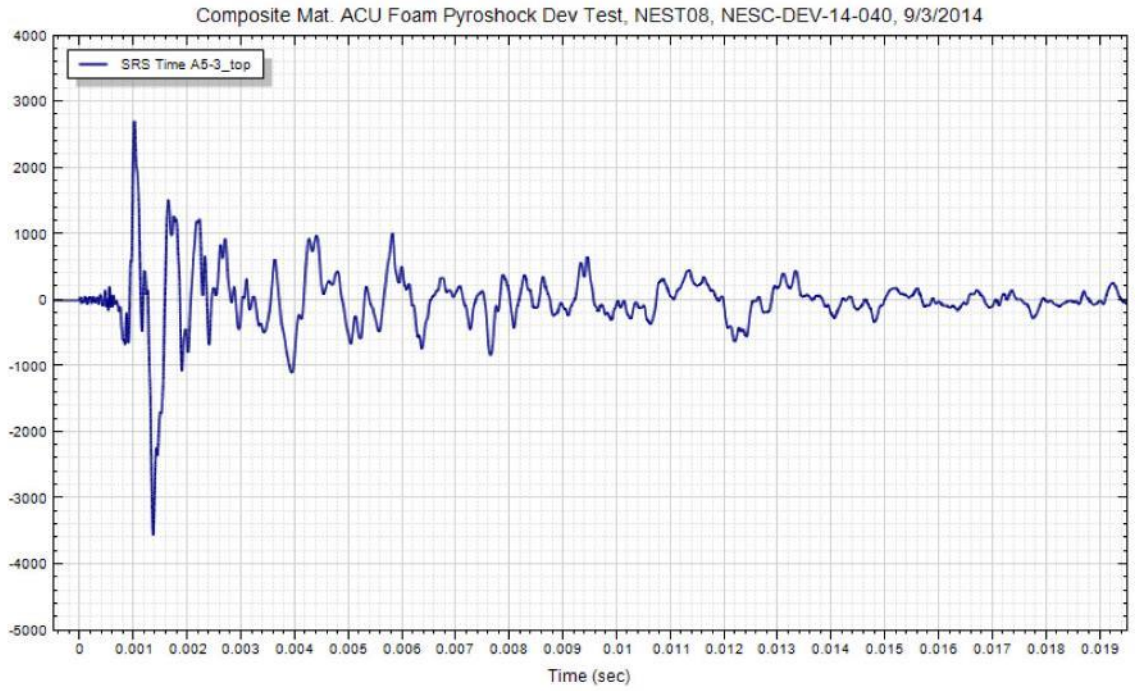
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A3-2_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

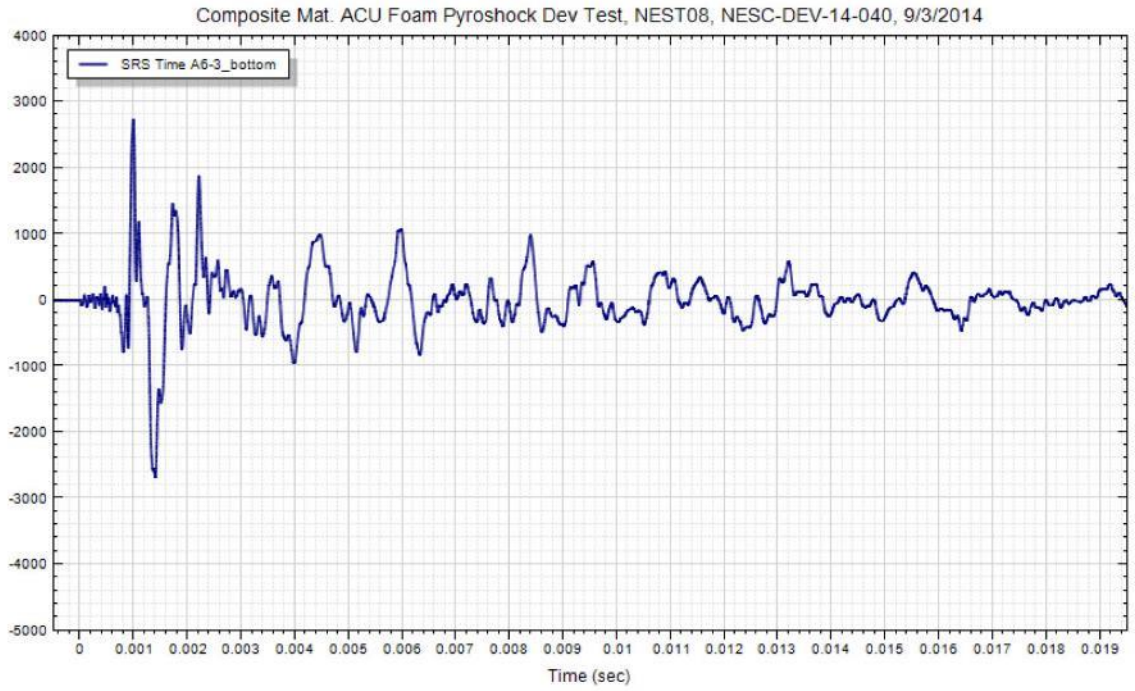
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A4-2_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

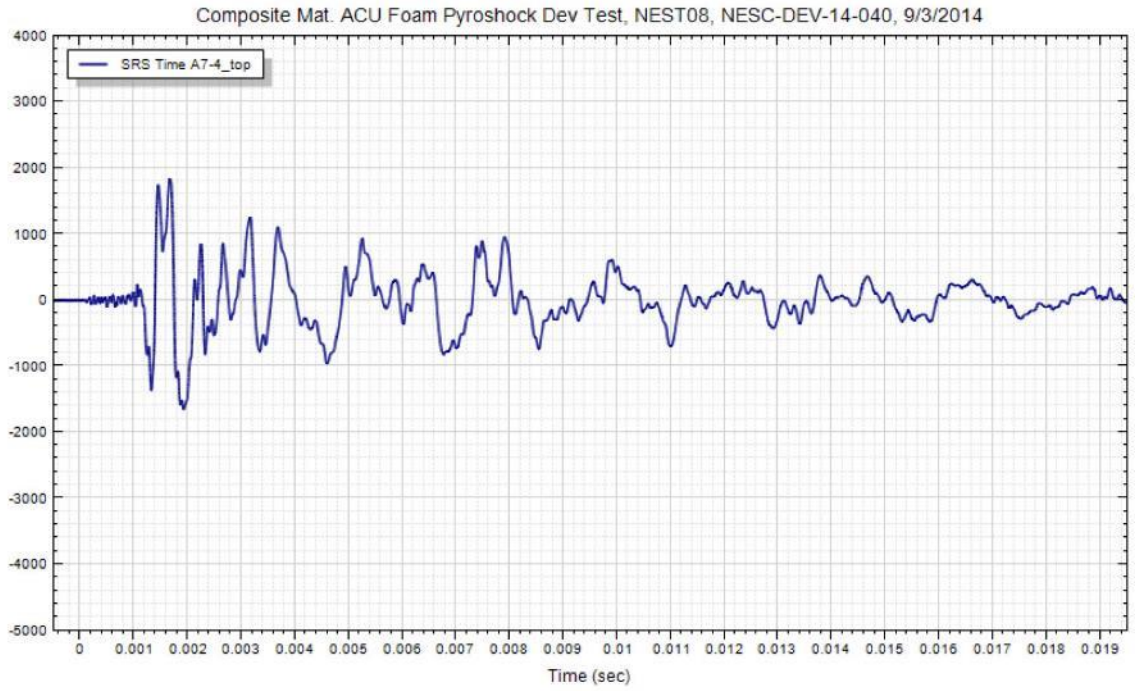
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A5-3_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

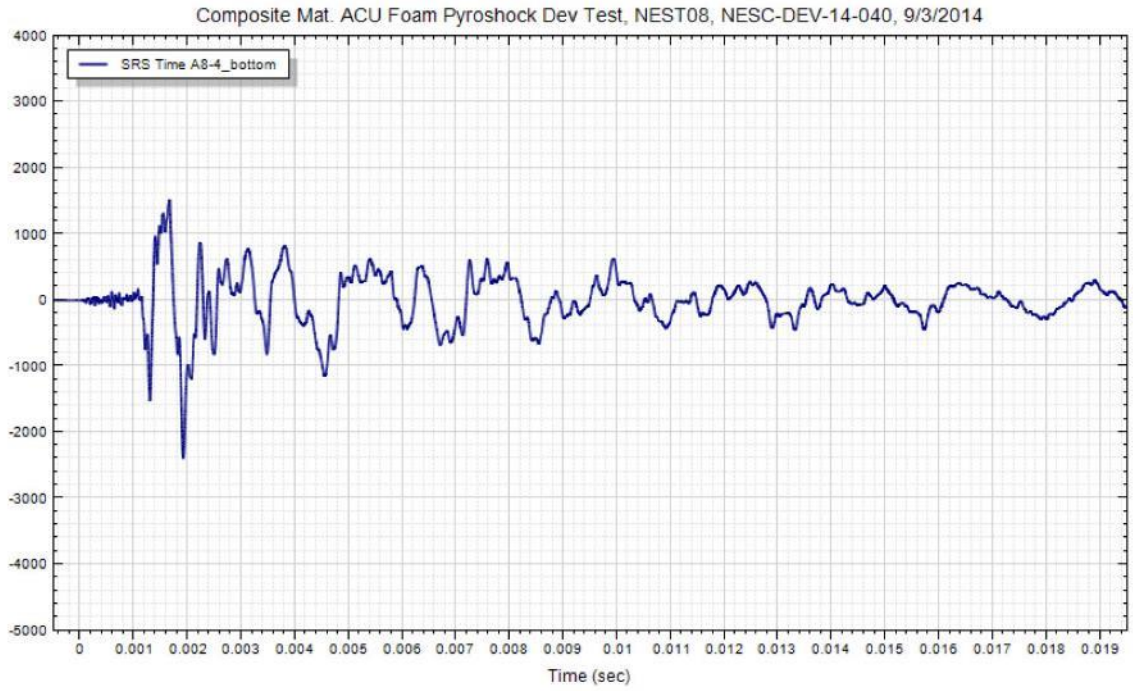
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A6-3_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

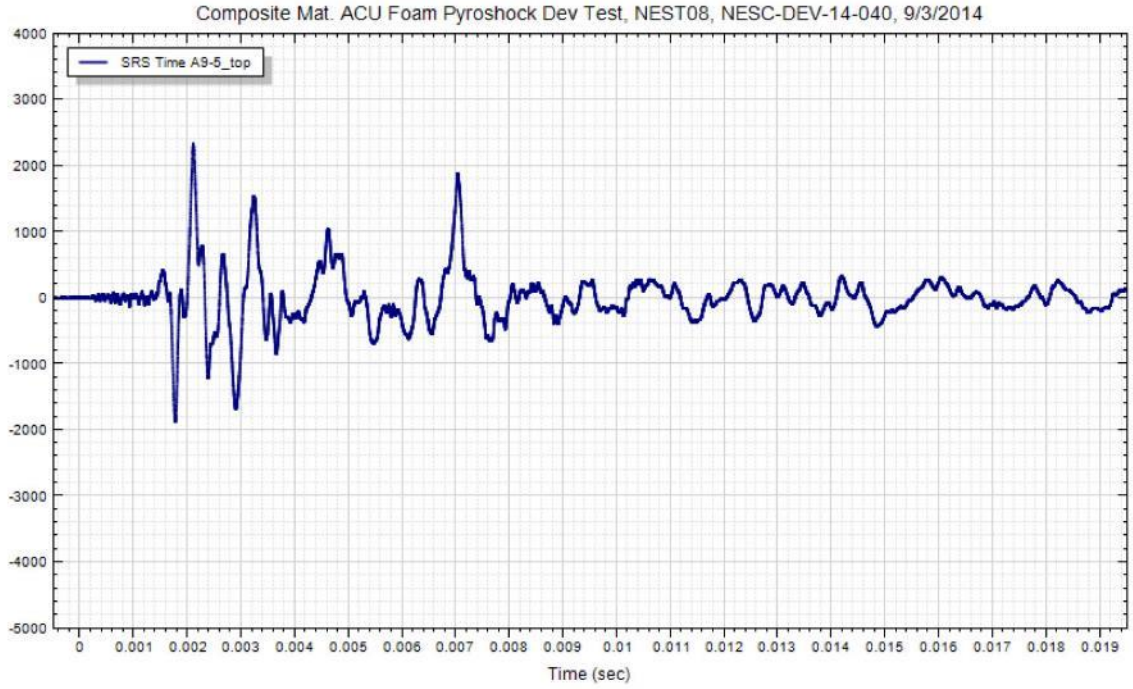
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A7-4_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

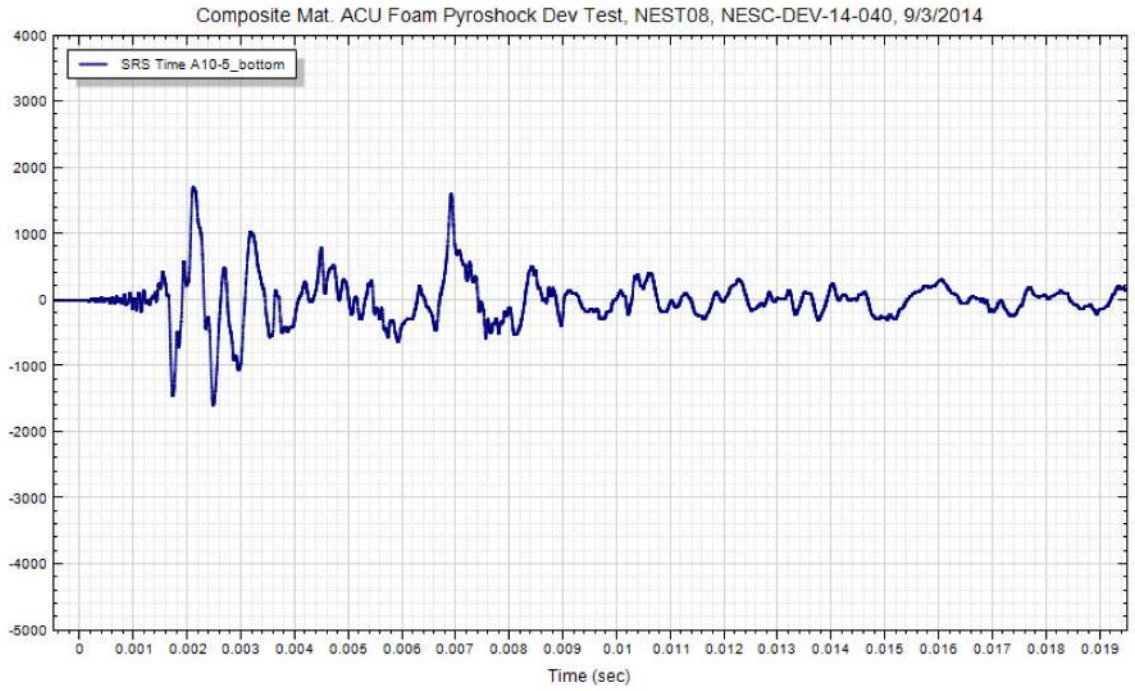
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A8-4_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

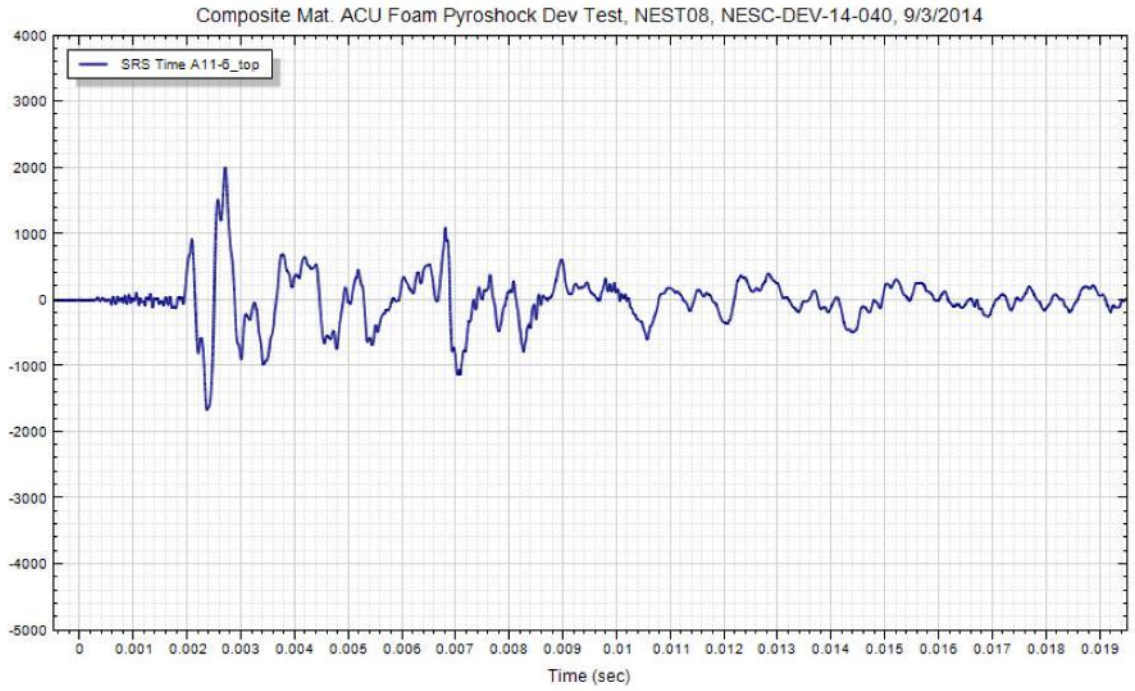
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A9-5_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

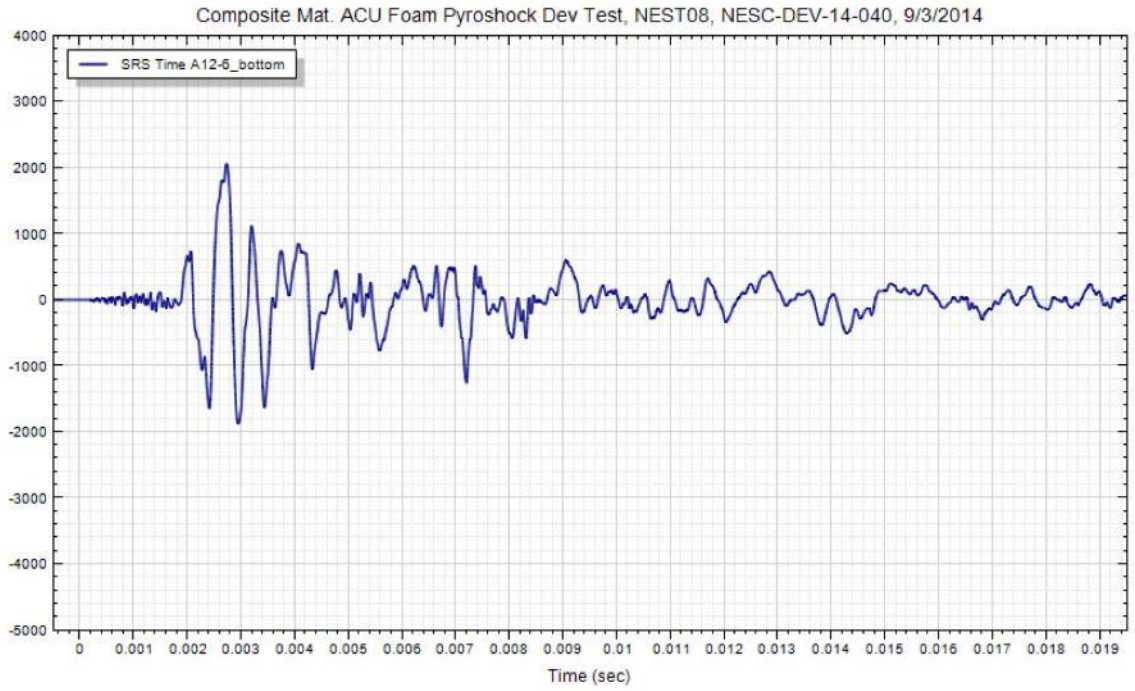
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A10-5_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

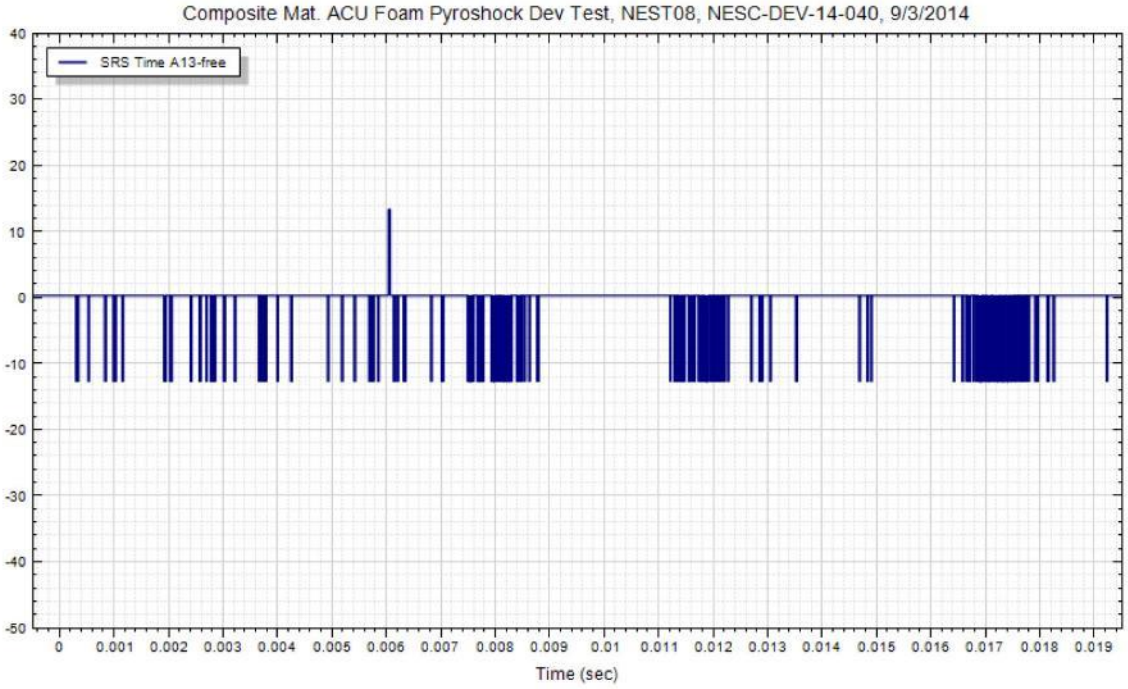
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A11-6_top
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A12-6_bottom
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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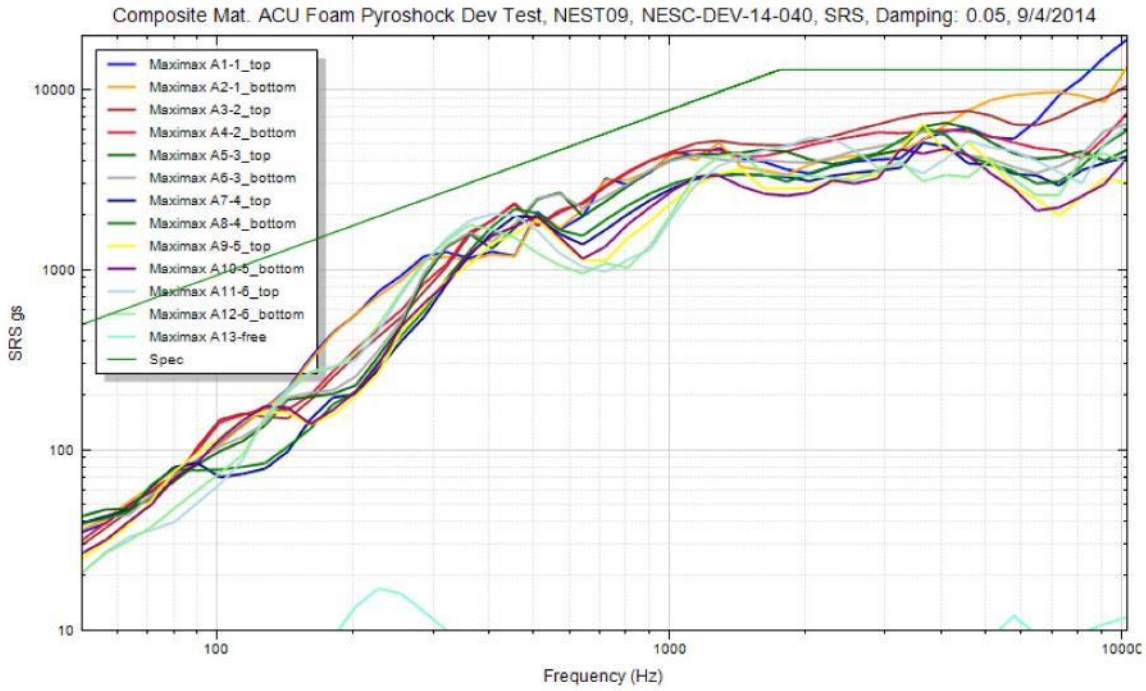

Composite Mat. ACU Foam Pyroshock Dev Test, NEST08, NESC-DEV-14-040, 9/3/2014
SRS Time A13-free
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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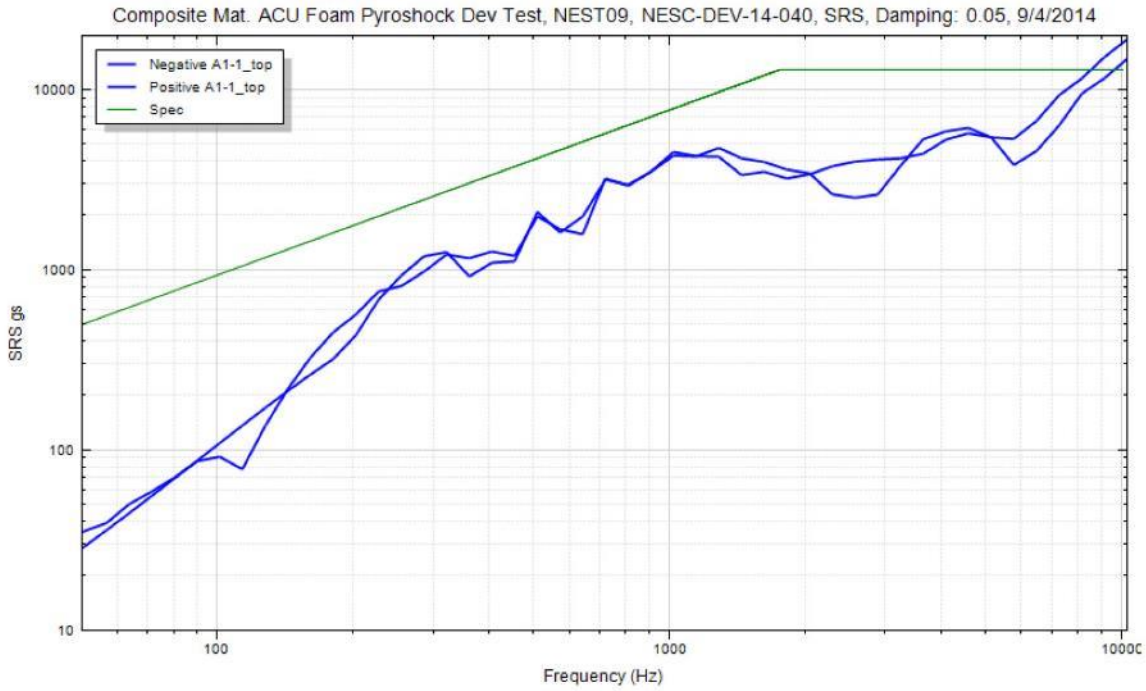
NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test #9 Accelerometer Data
Panel 0332A011

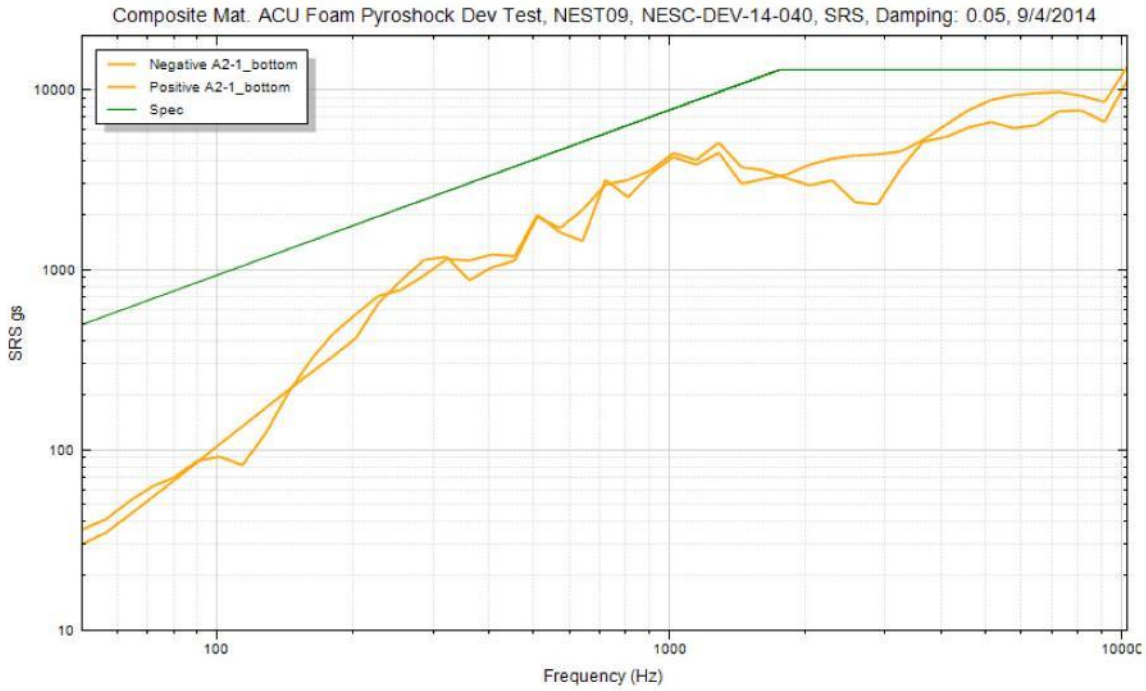
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

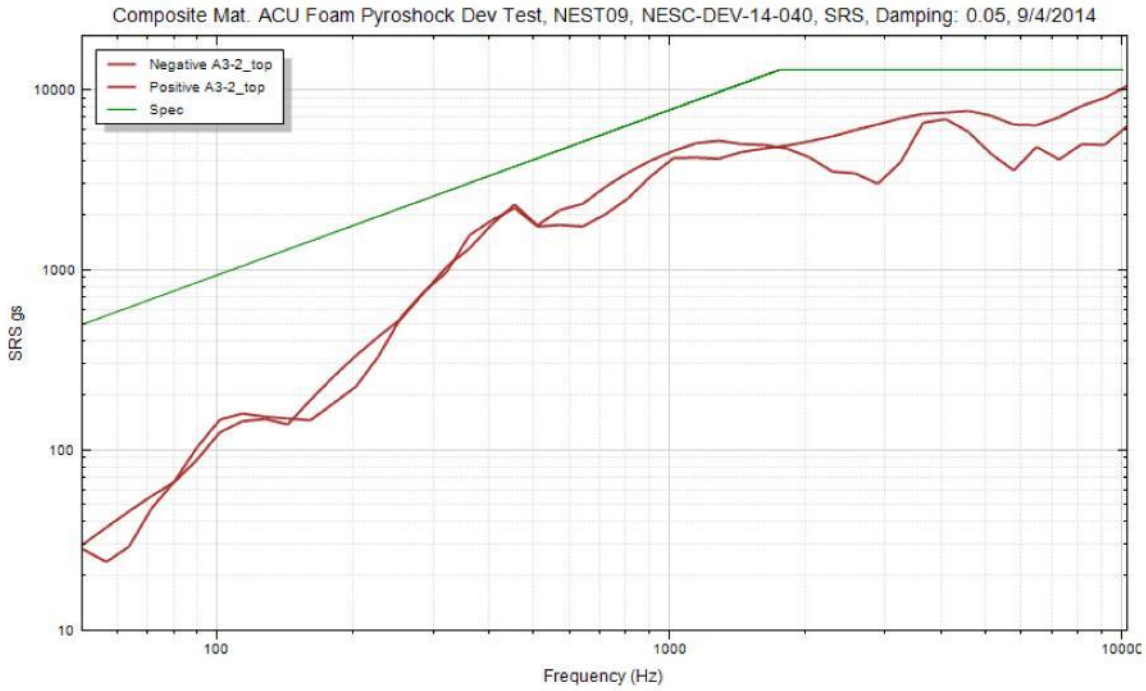
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

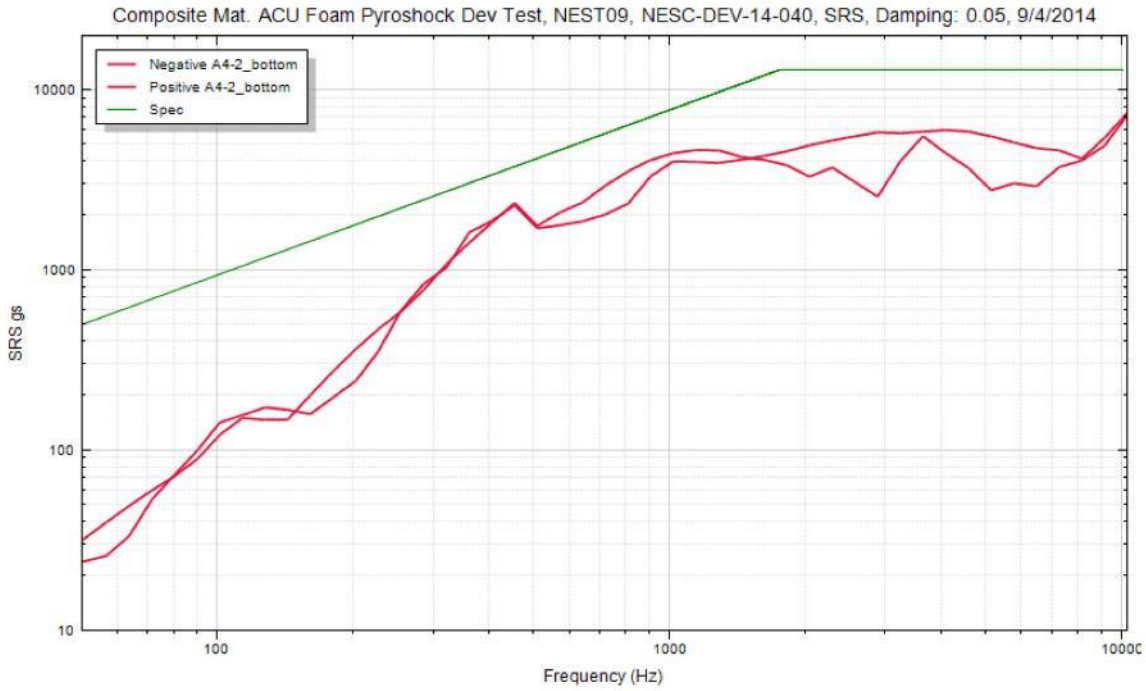
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS g²
100
1000
10000
Frequency (Hz)

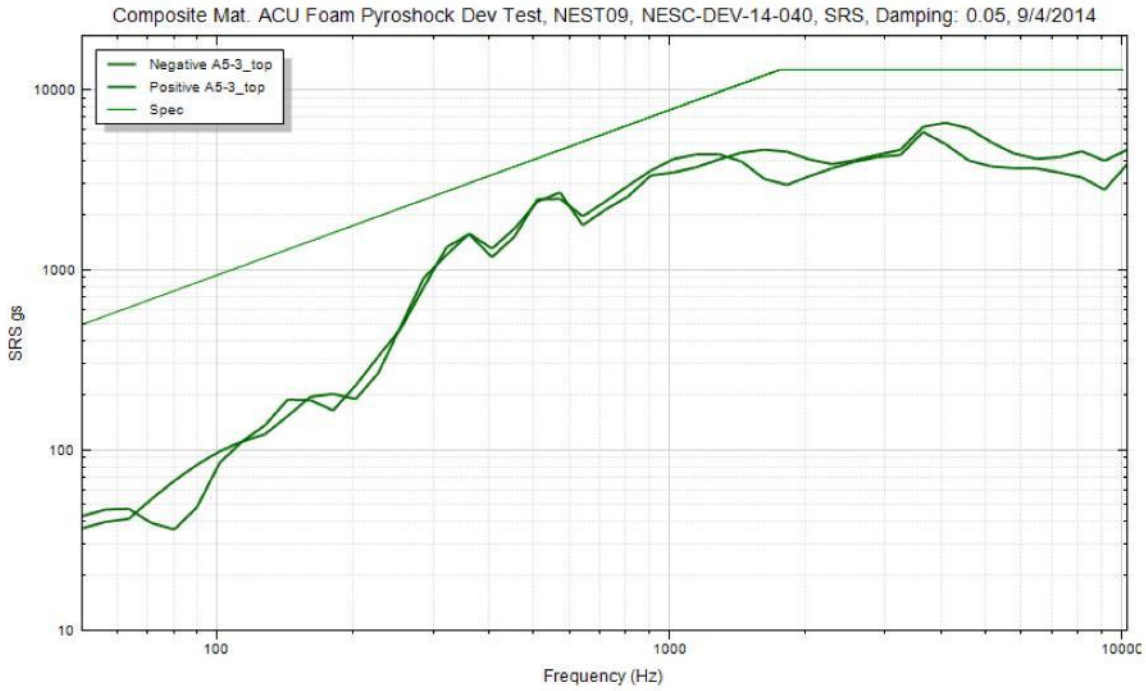
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

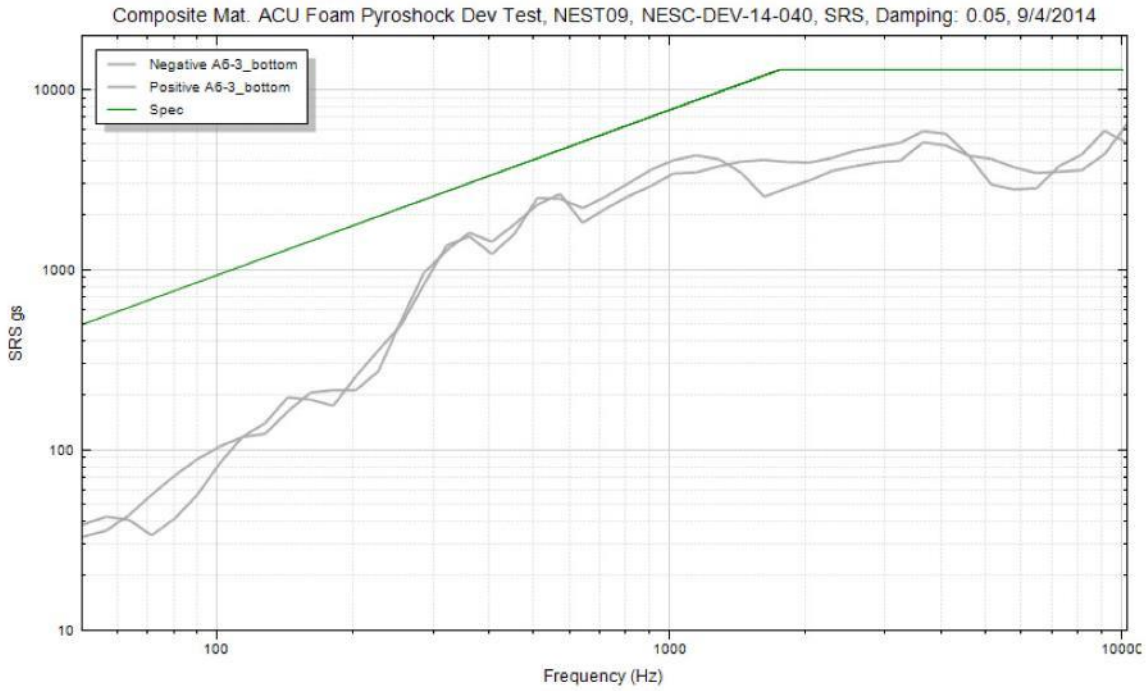
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

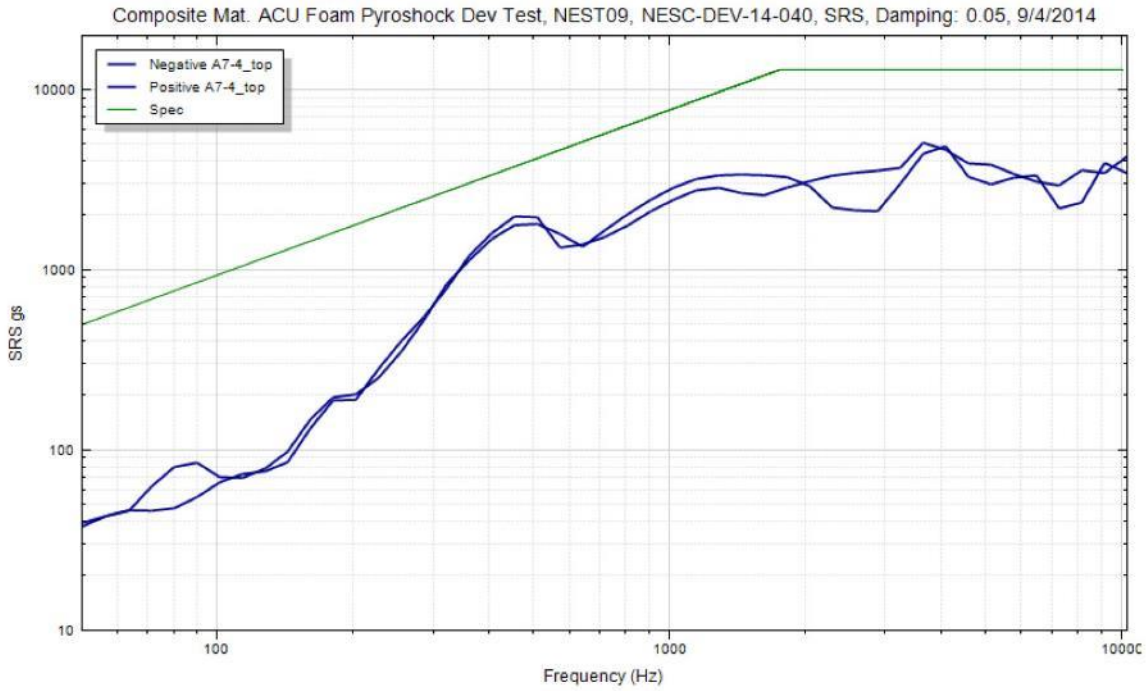
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

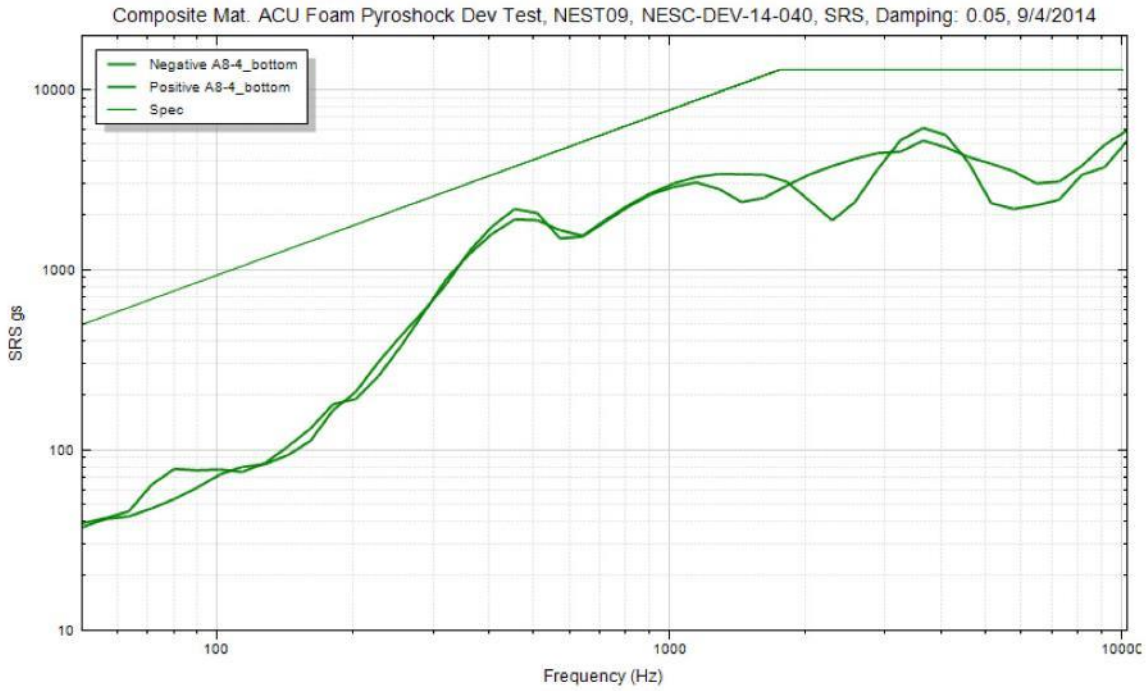
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

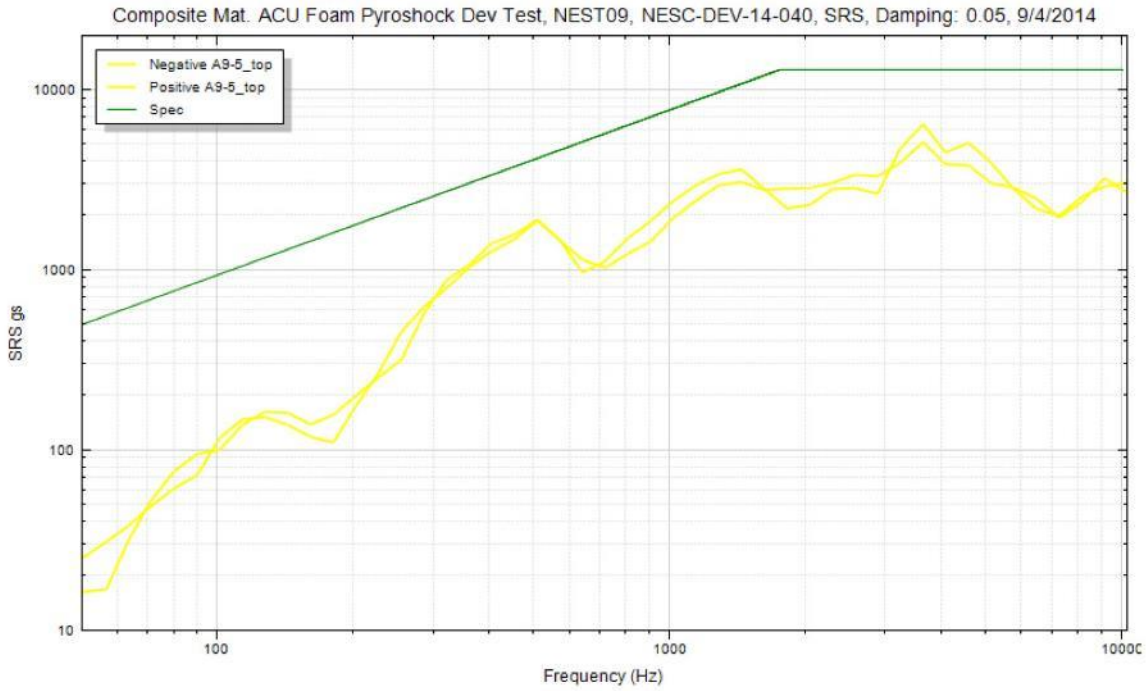
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

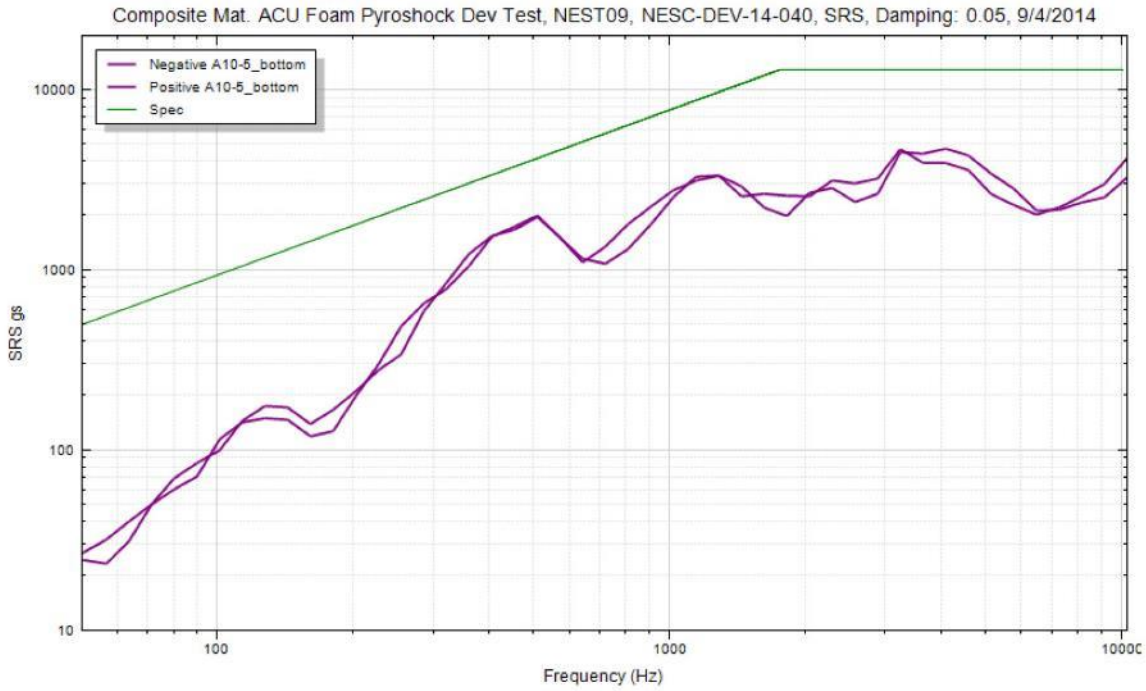
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

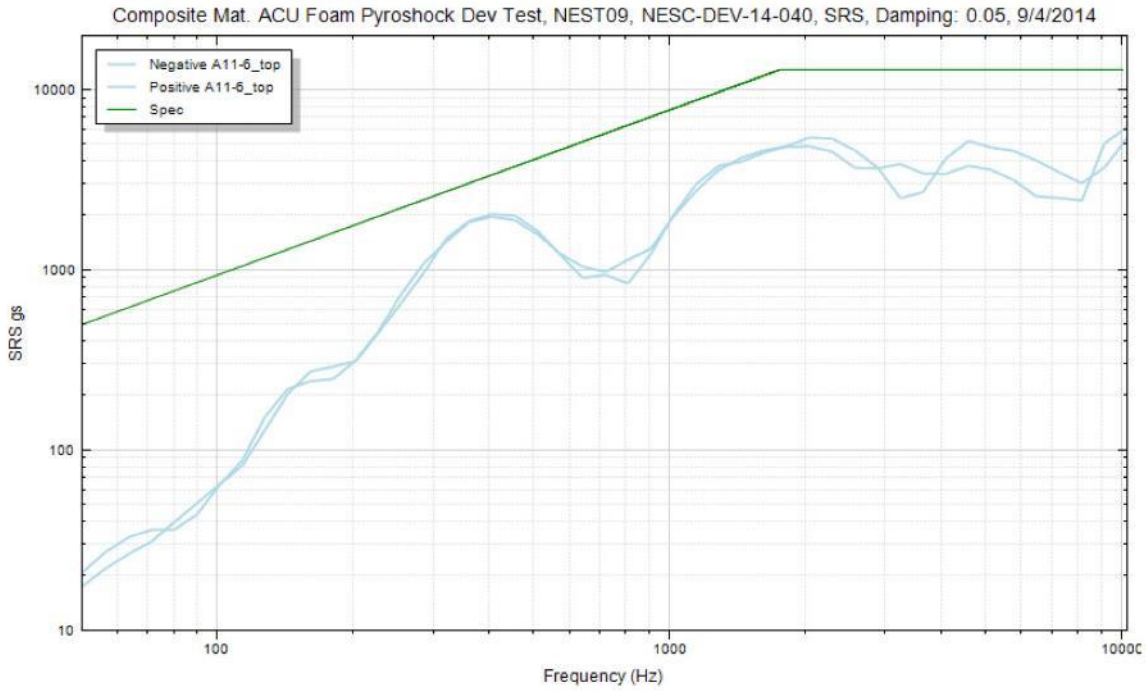
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

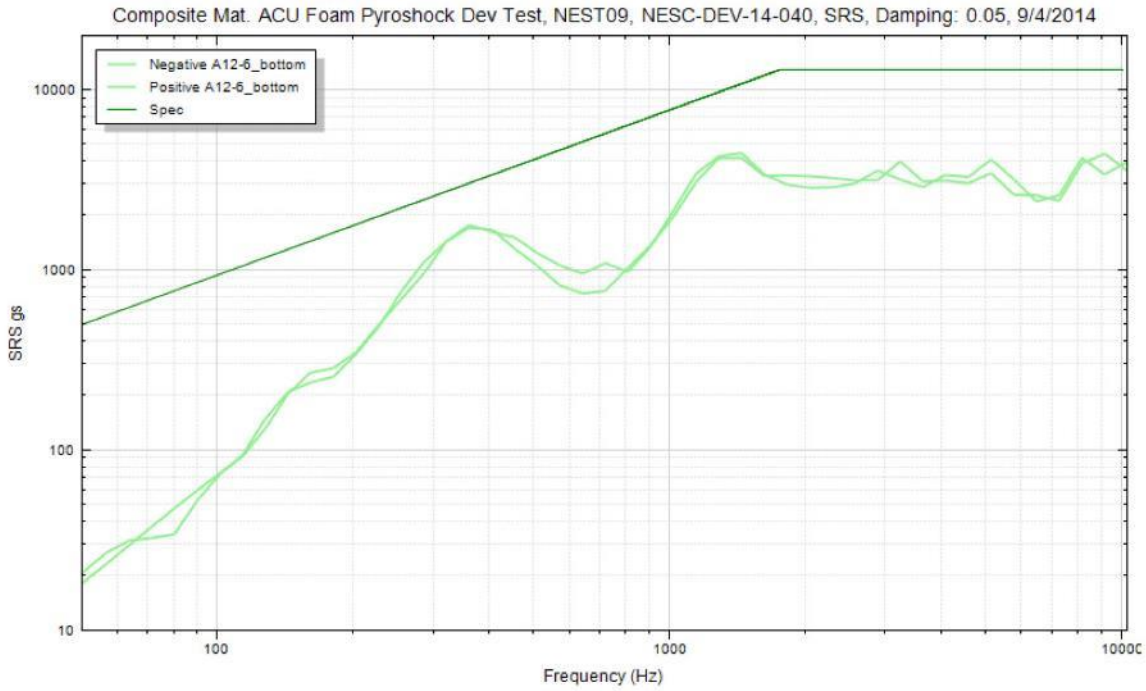
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

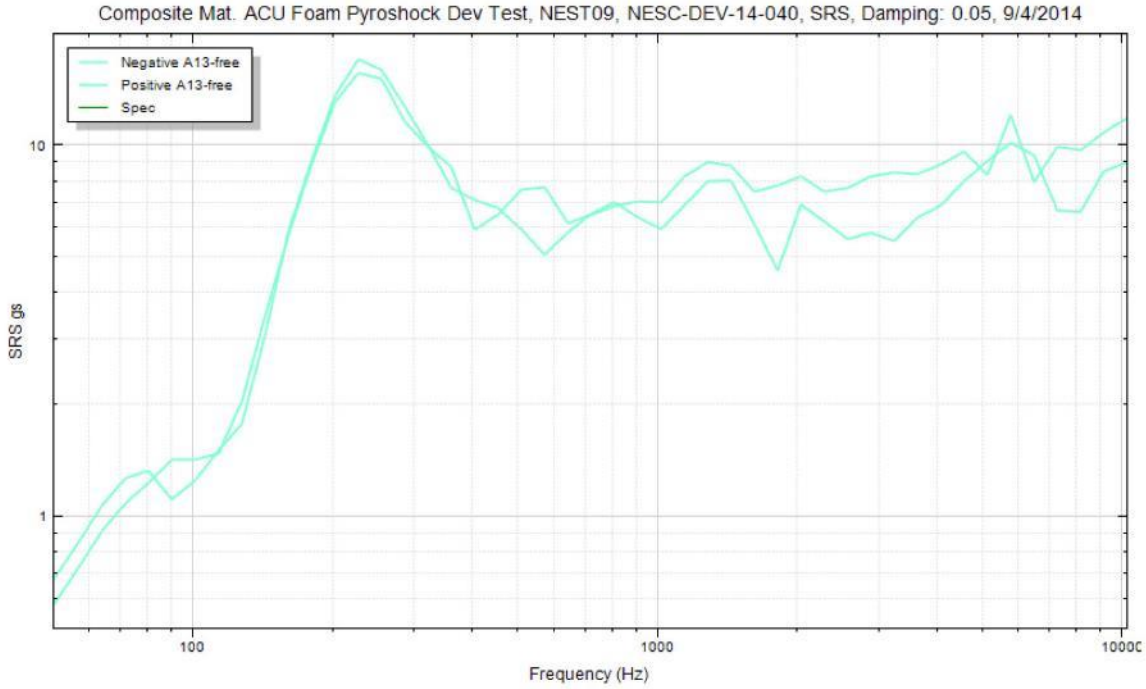
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

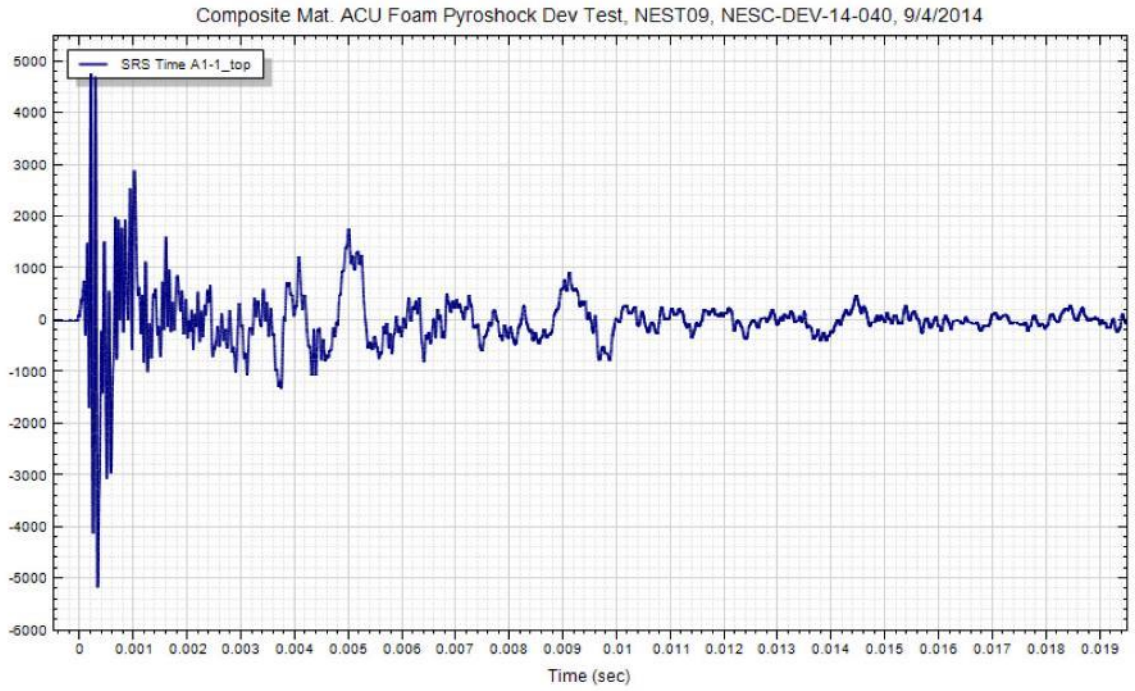
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

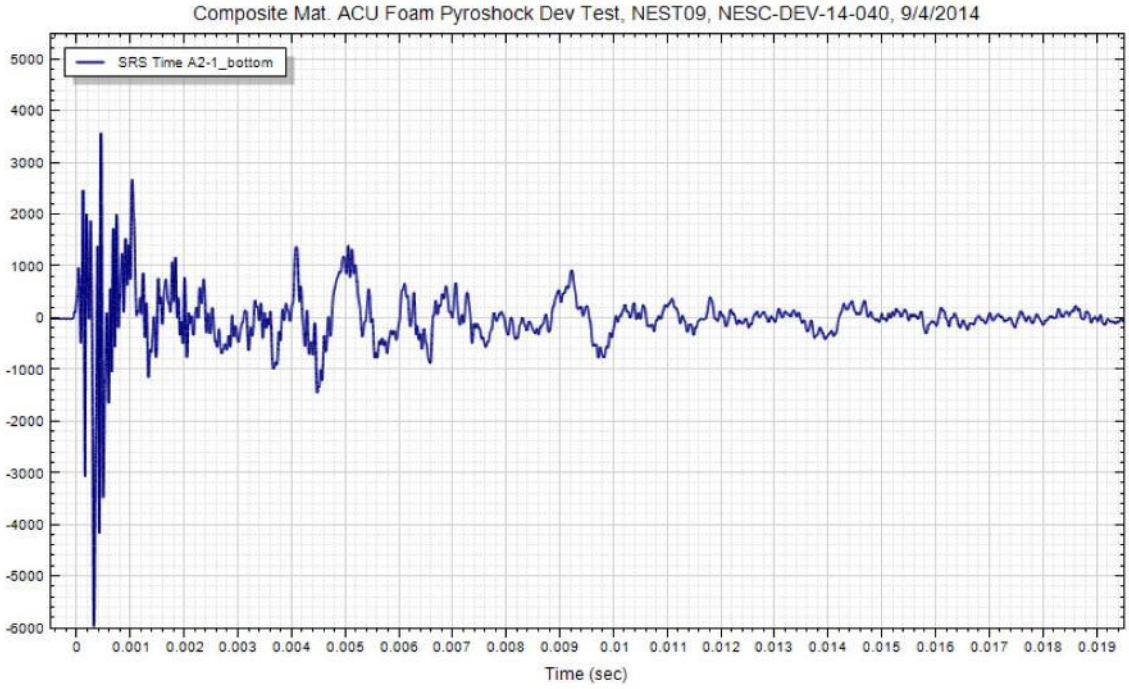
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, SRS, Damping: 0.05, 9/4/2014
Negative A13-free
Positive A13-free
Spec
10
1
SRS gs
100
1000
10000
Frequency (Hz)

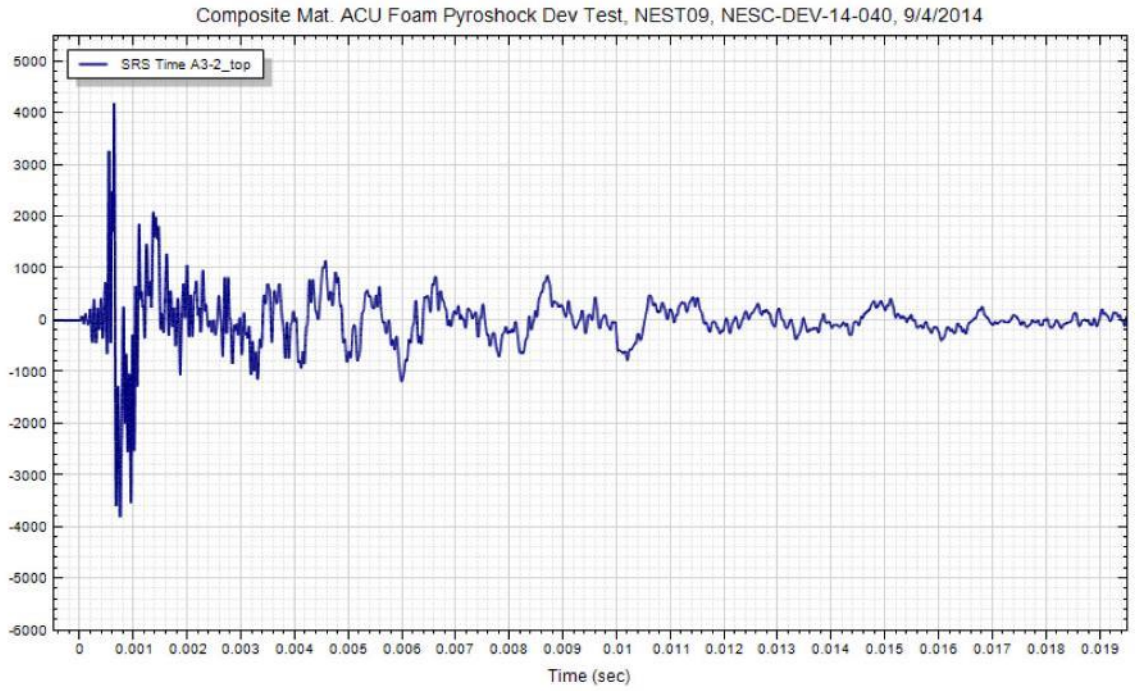
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A1-1_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

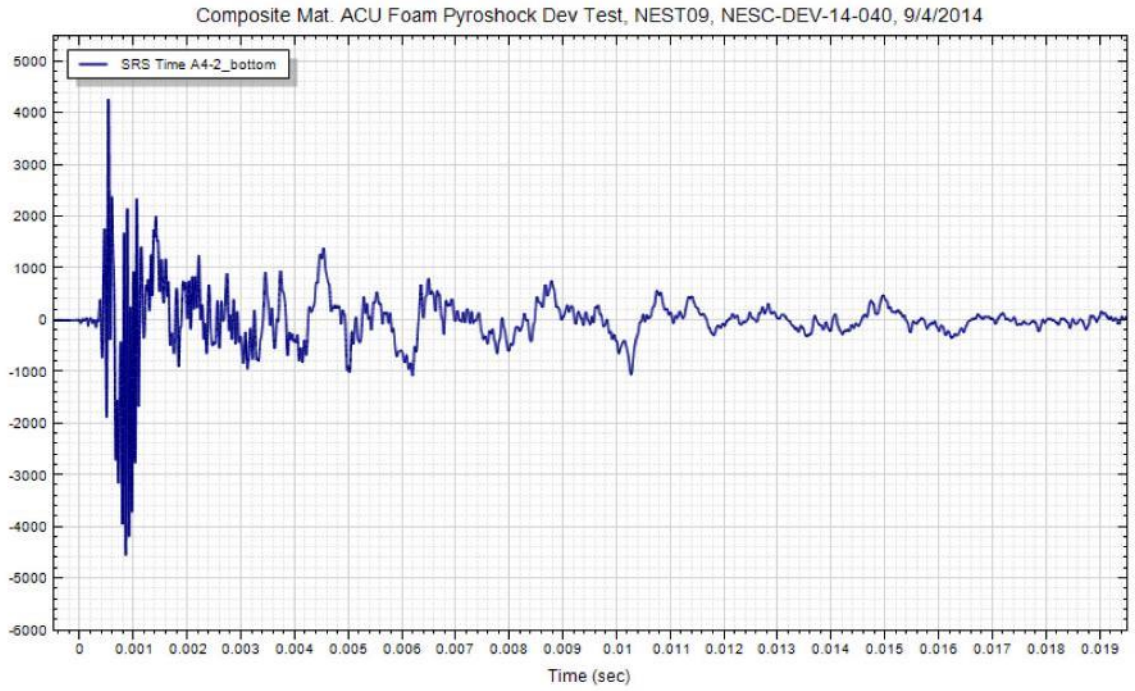
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A2-1_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

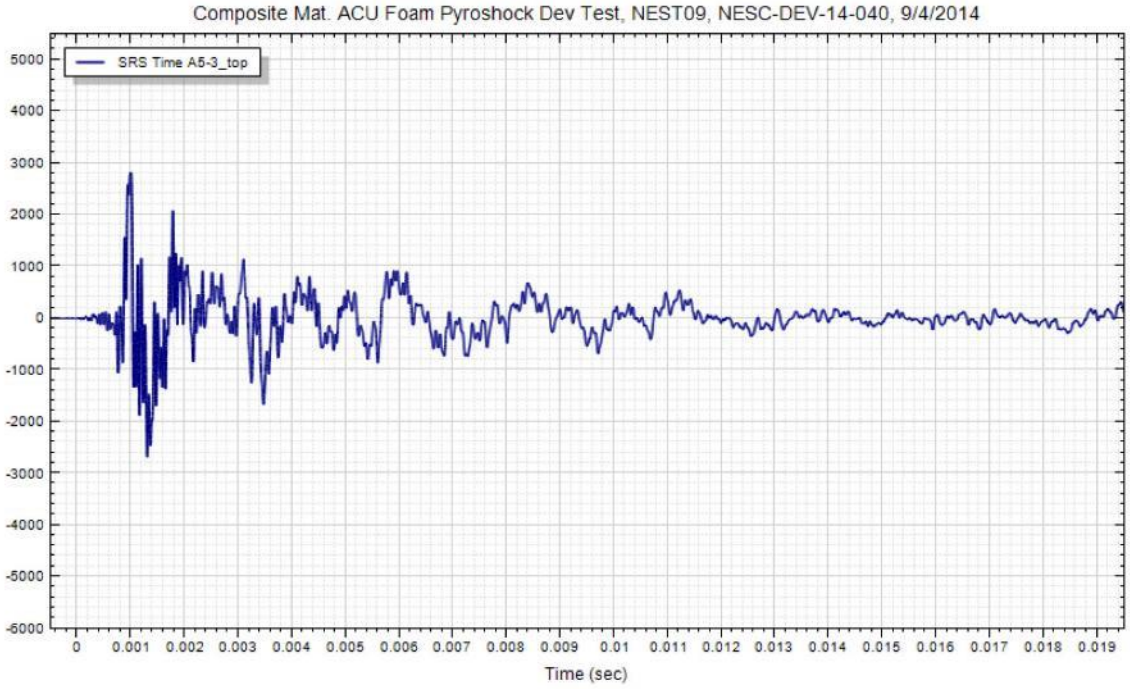
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A3-2_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

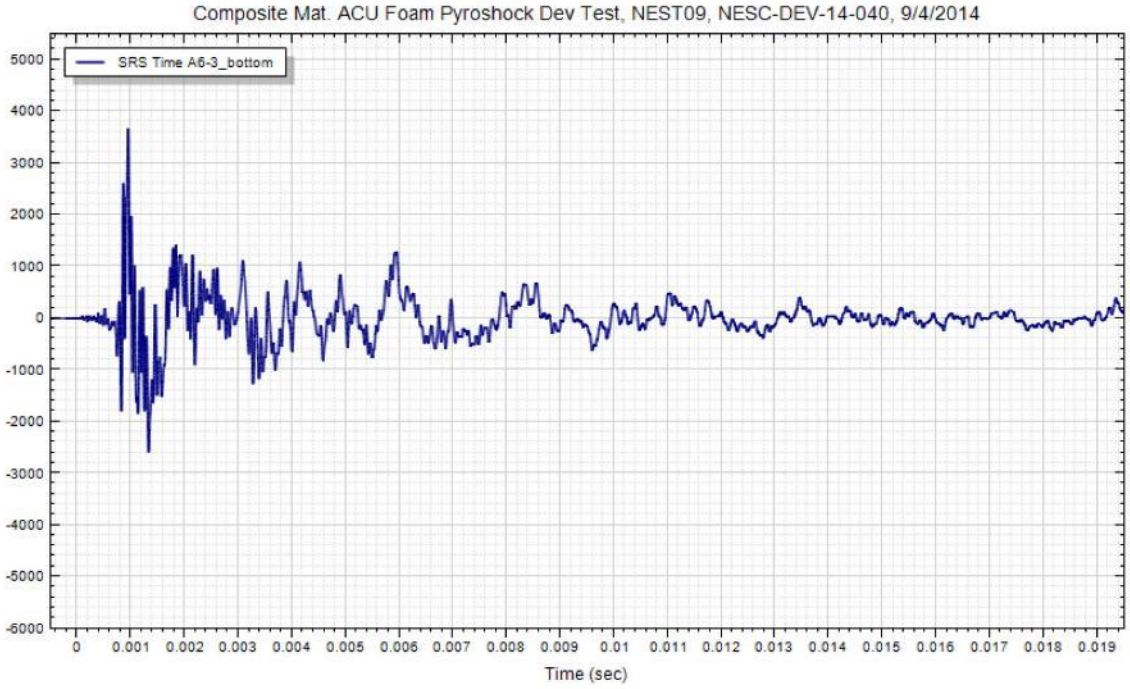
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A4-2_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

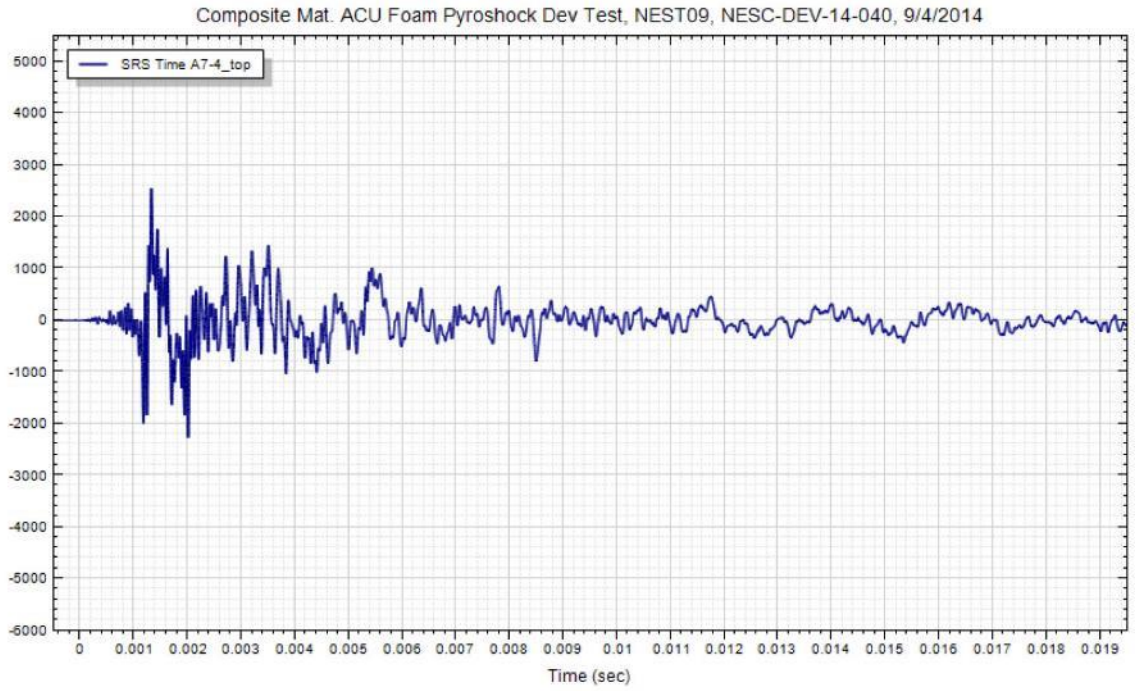
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A5-3_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

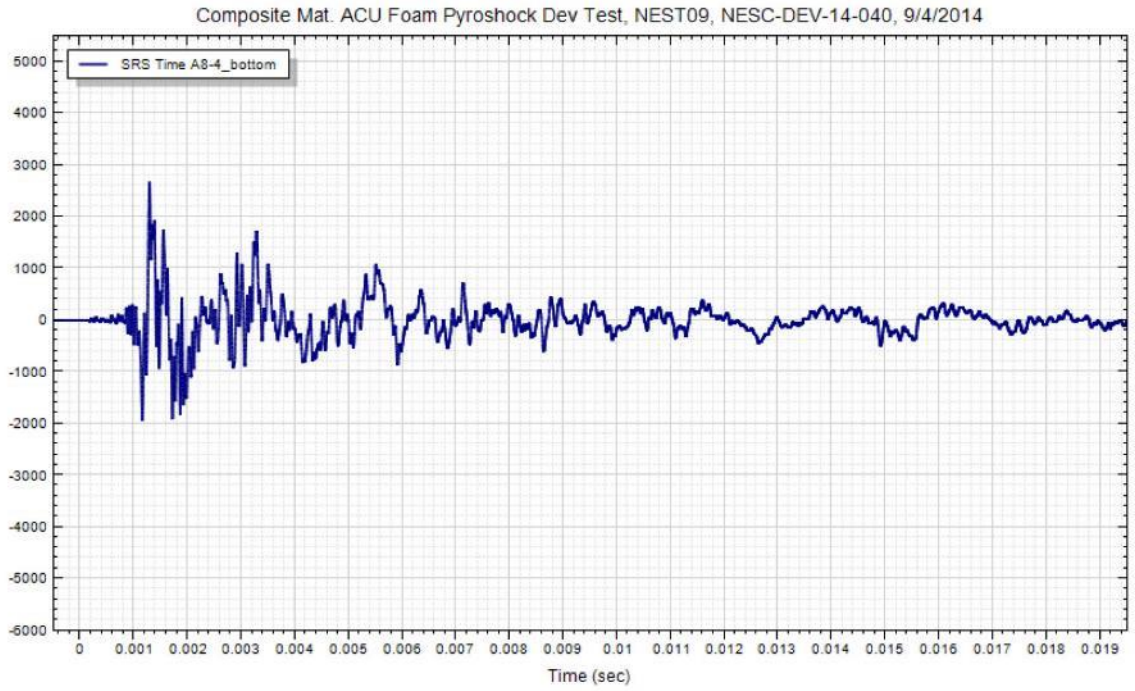
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A6-3_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

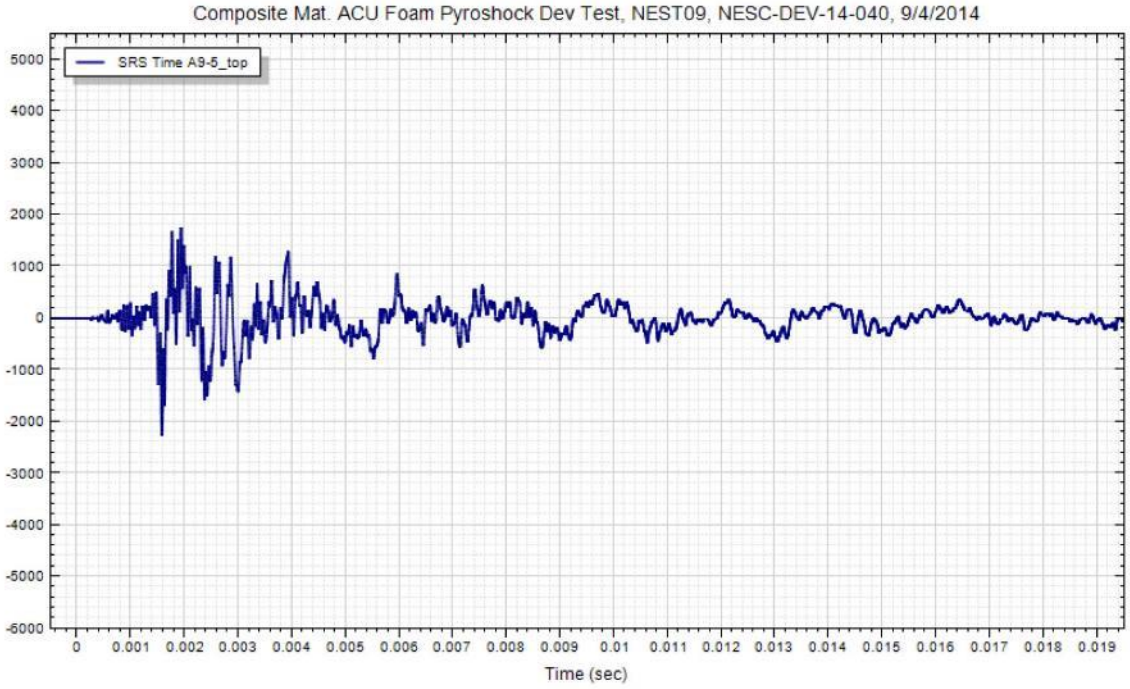
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A7-4_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

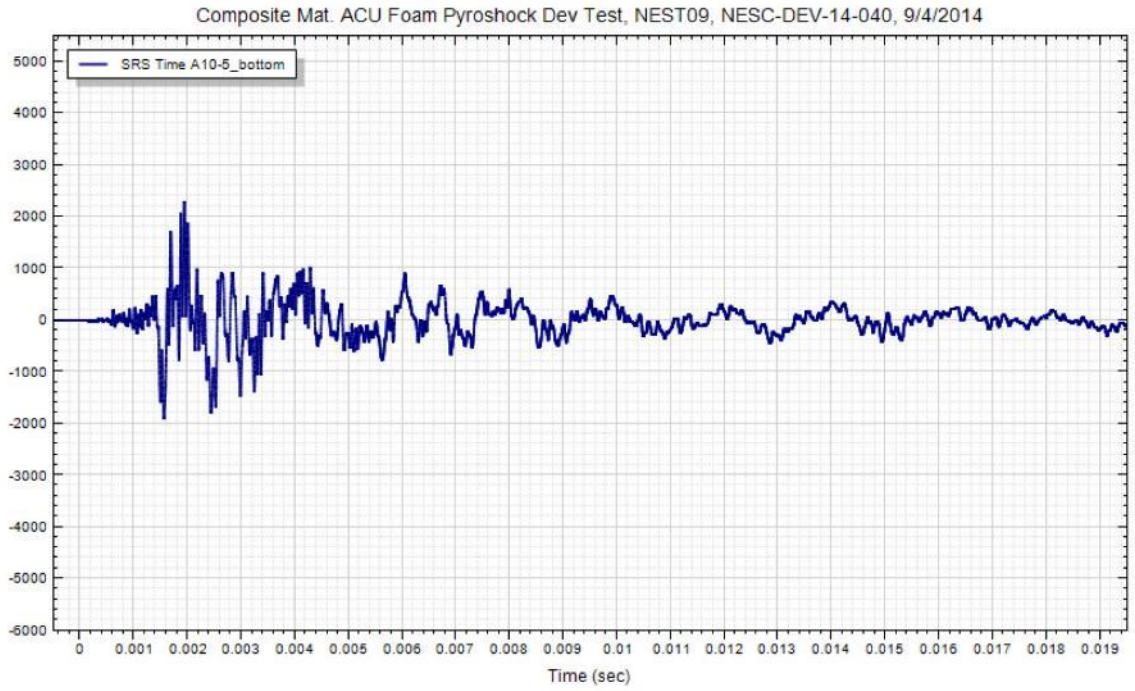
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A8-4_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

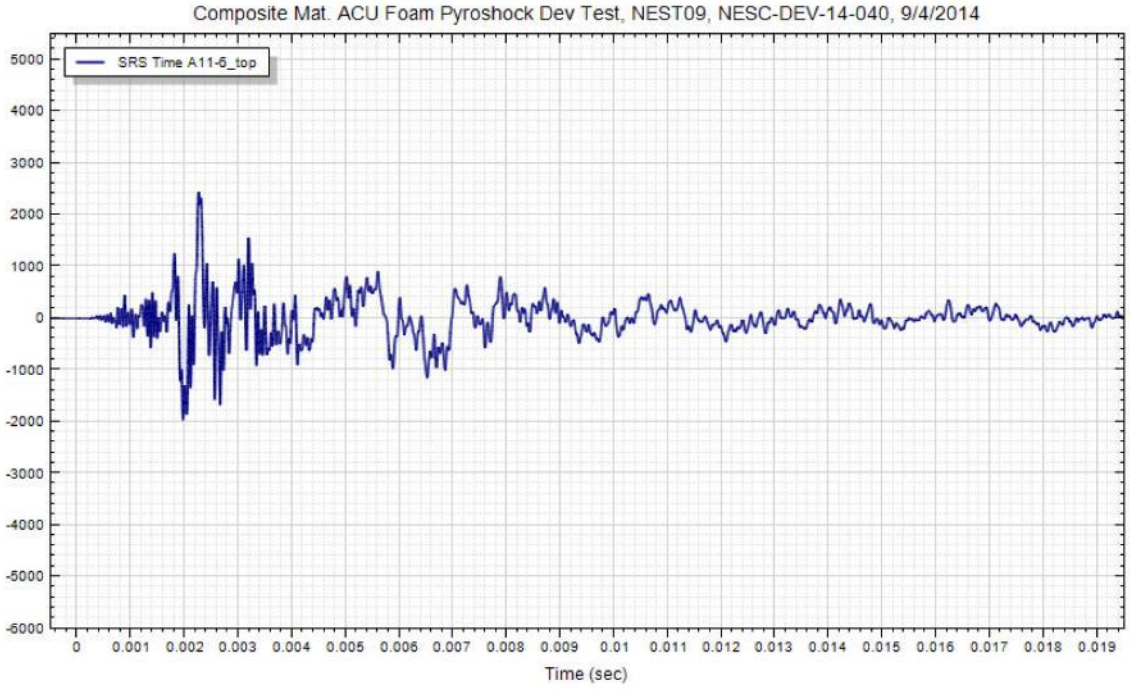
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A9-5_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

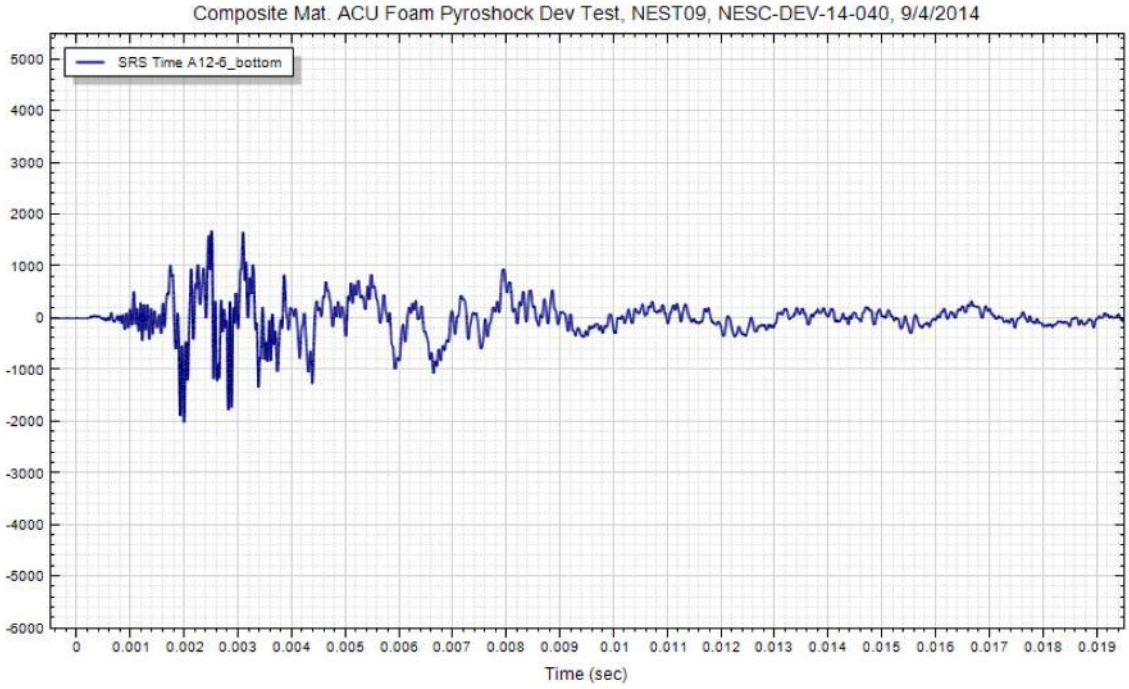
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A10-5_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

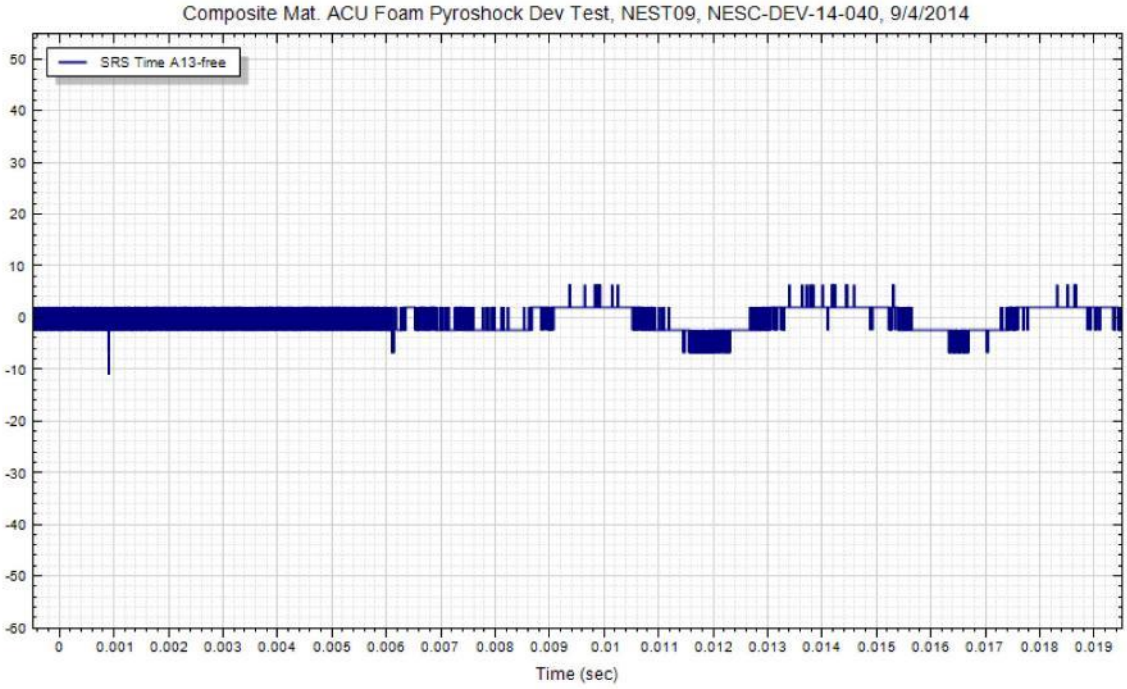
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A11-6_top
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

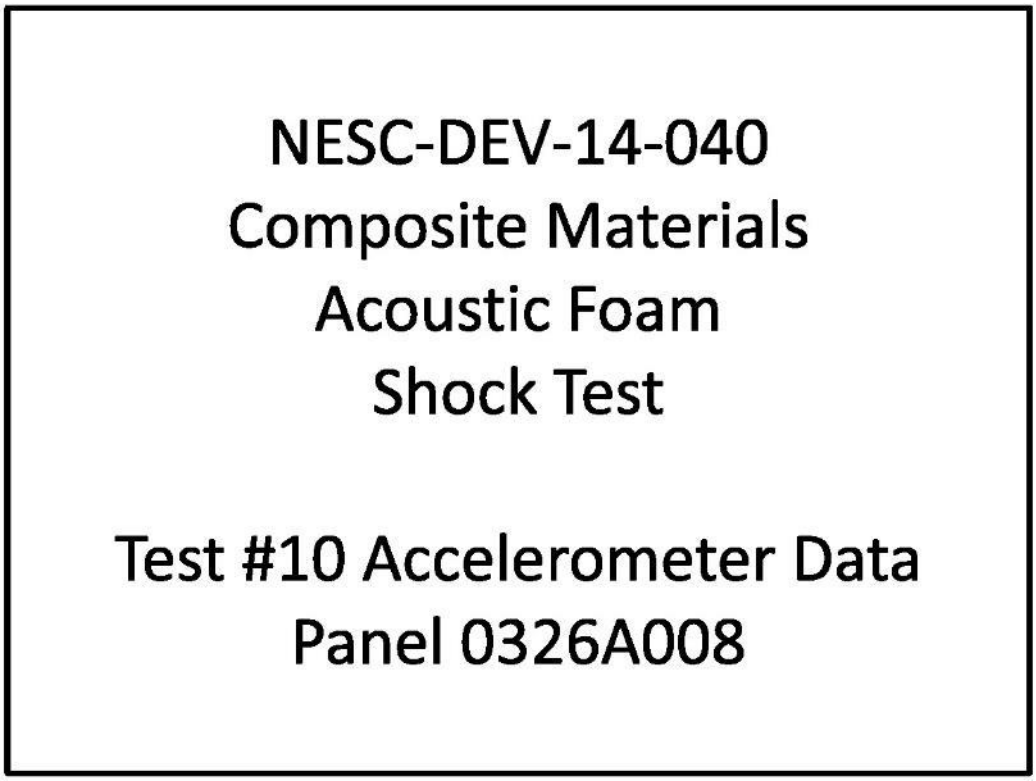
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A12-6_bottom
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

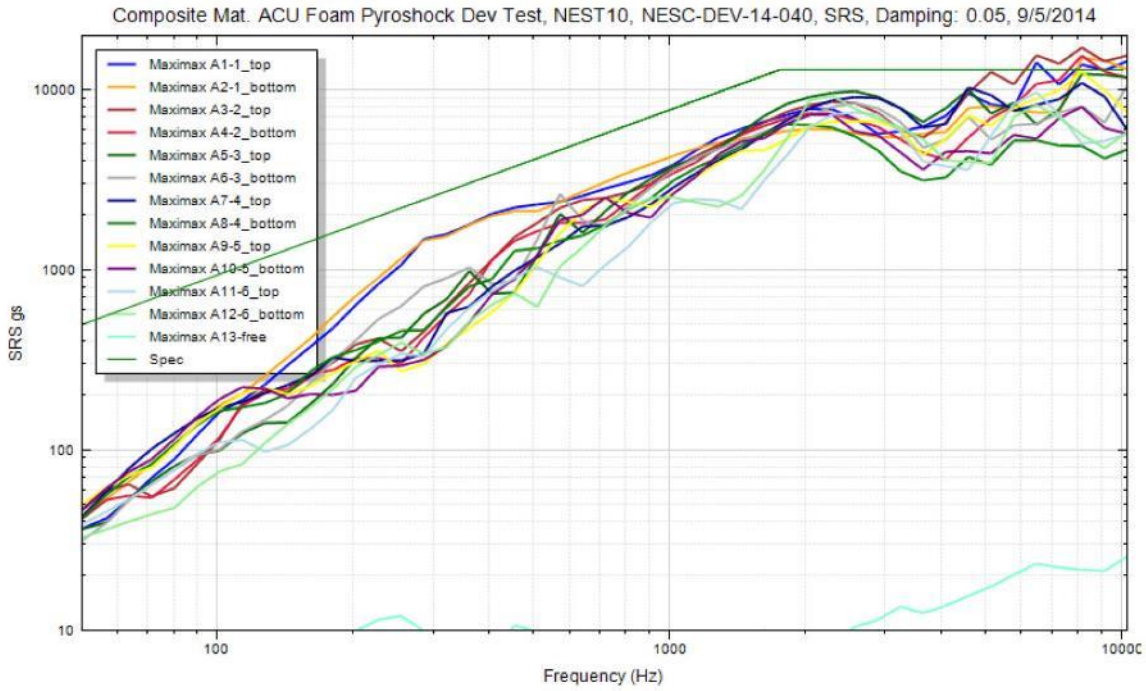
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST09, NESC-DEV-14-040, 9/4/2014
SRS Time A13-free
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

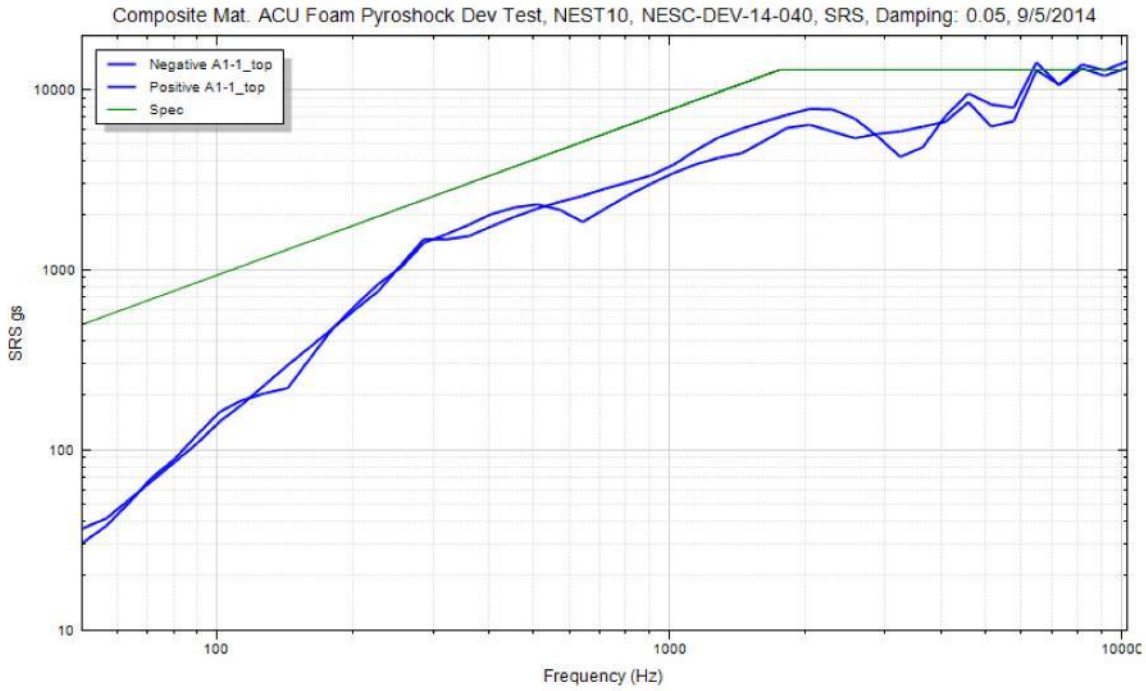
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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Test #10 Accelerometer Data
Panel 0326A008

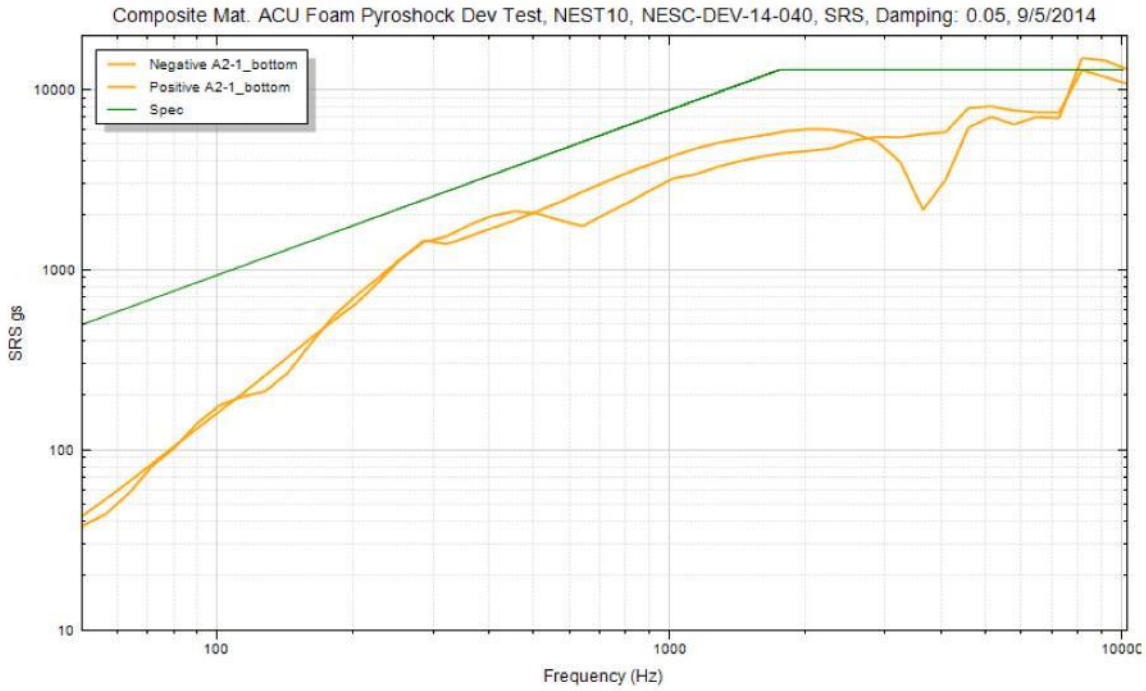
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Maximax A1-1_top
Maximax A2-1_bottom
Maximax A3-2_top
Maximax A4-2_bottom
Maximax A5-3_top
Maximax A6-3_bottom
Maximax A7-4_top
Maximax A8-4_bottom
Maximax A9-5_top
Maximax A10-5_bottom
Maximax A11-6_top
Maximax A12-6_bottom
Maximax A13-free
Spec
SRS gs
10000
1000
100
10
100
1000
10000
Frequency (Hz)

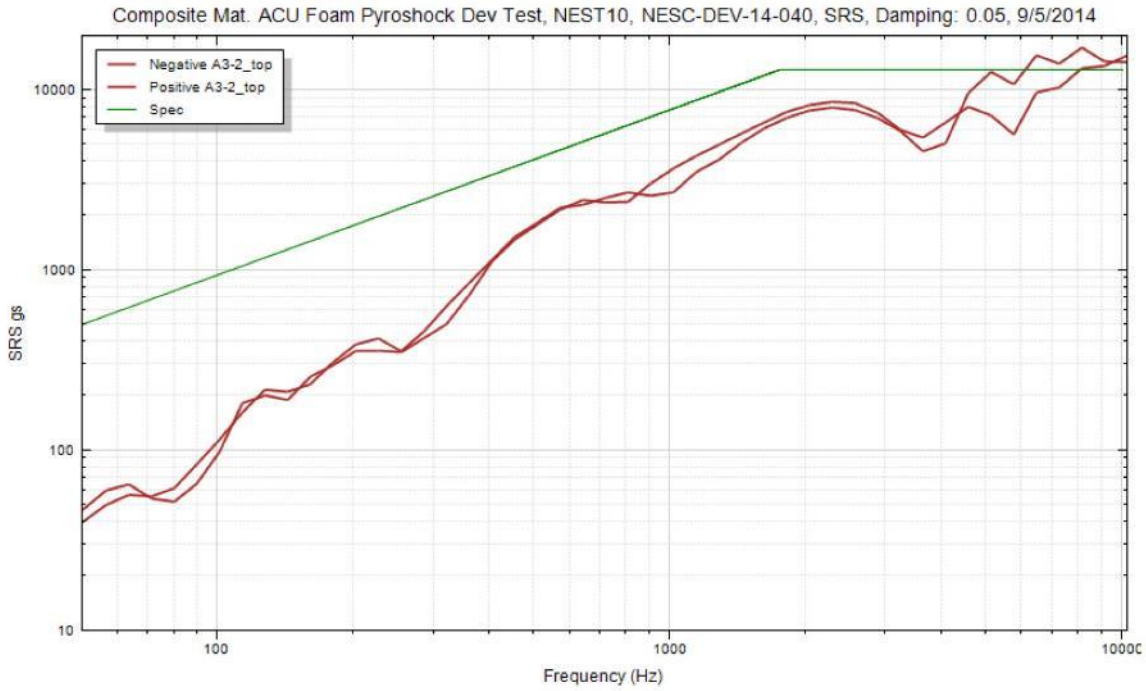
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A1-1_top
Positive A1-1_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

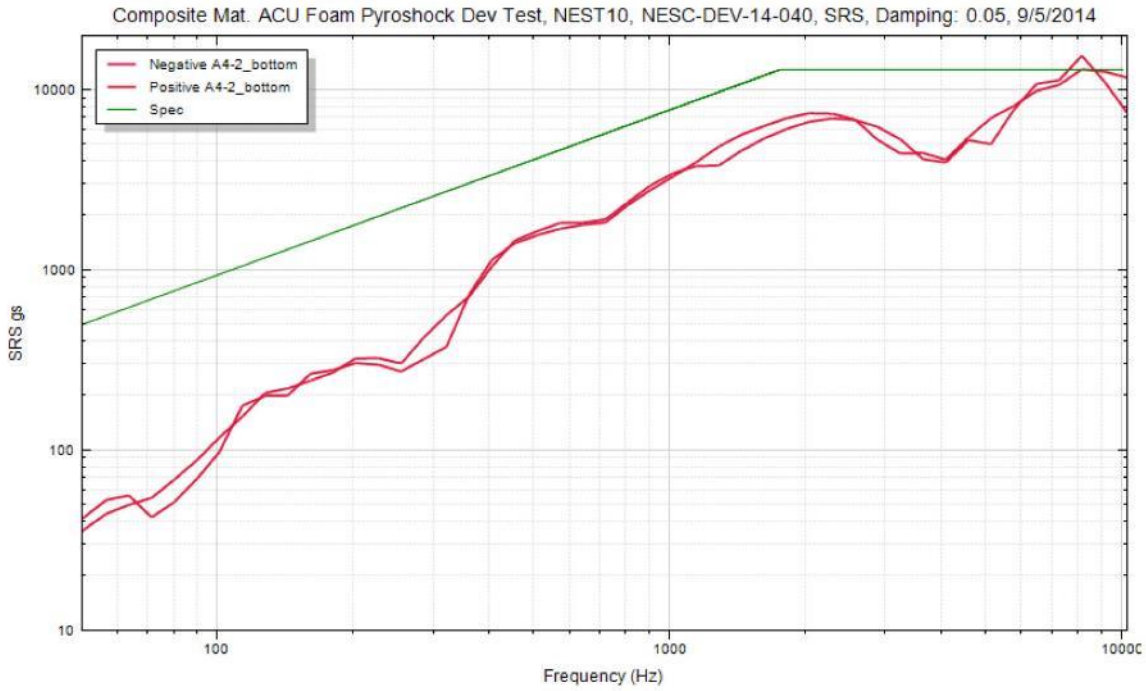
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A2-1_bottom
Positive A2-1_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

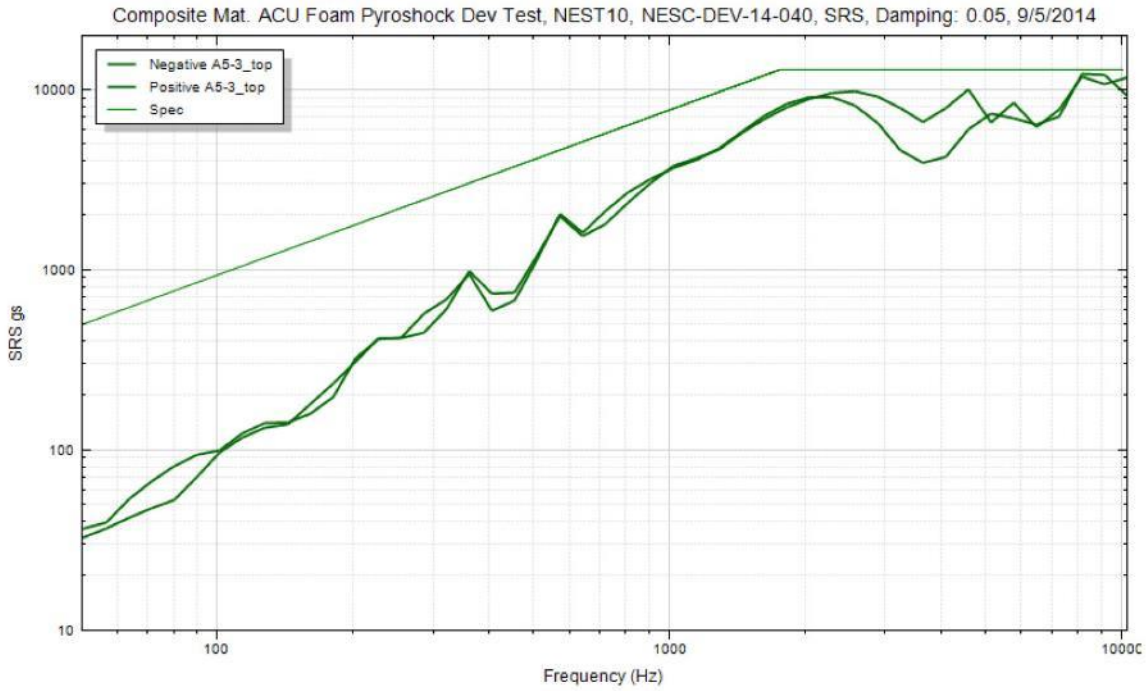
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A3-2_top
Positive A3-2_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

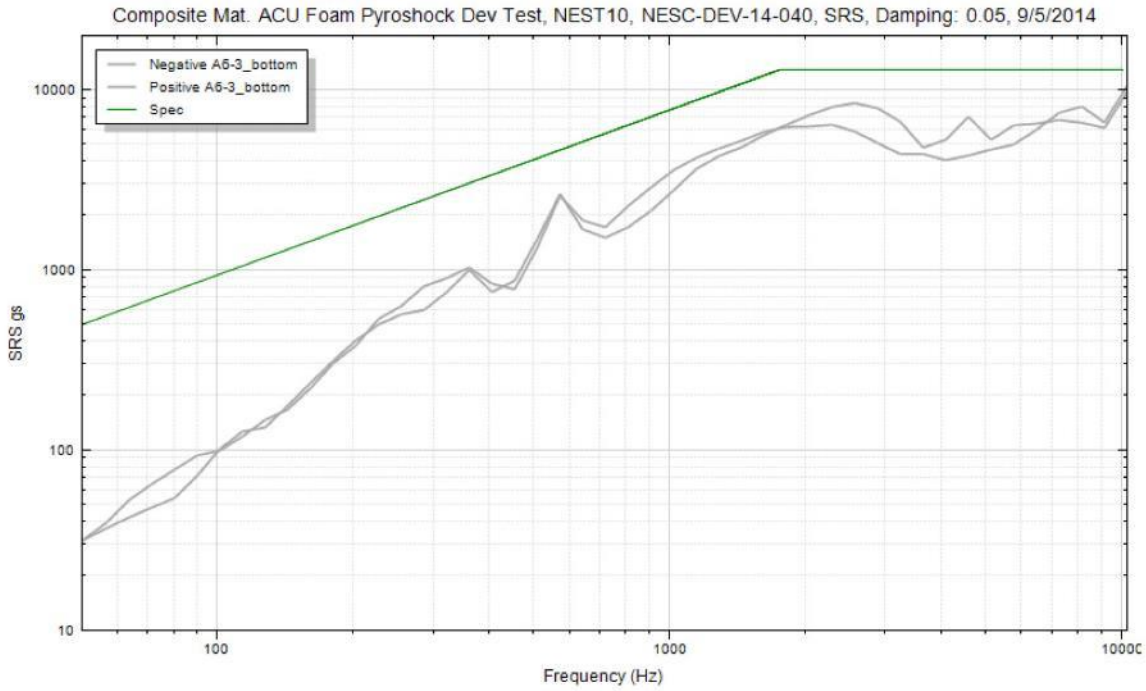
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A4-2_bottom
Positive A4-2_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

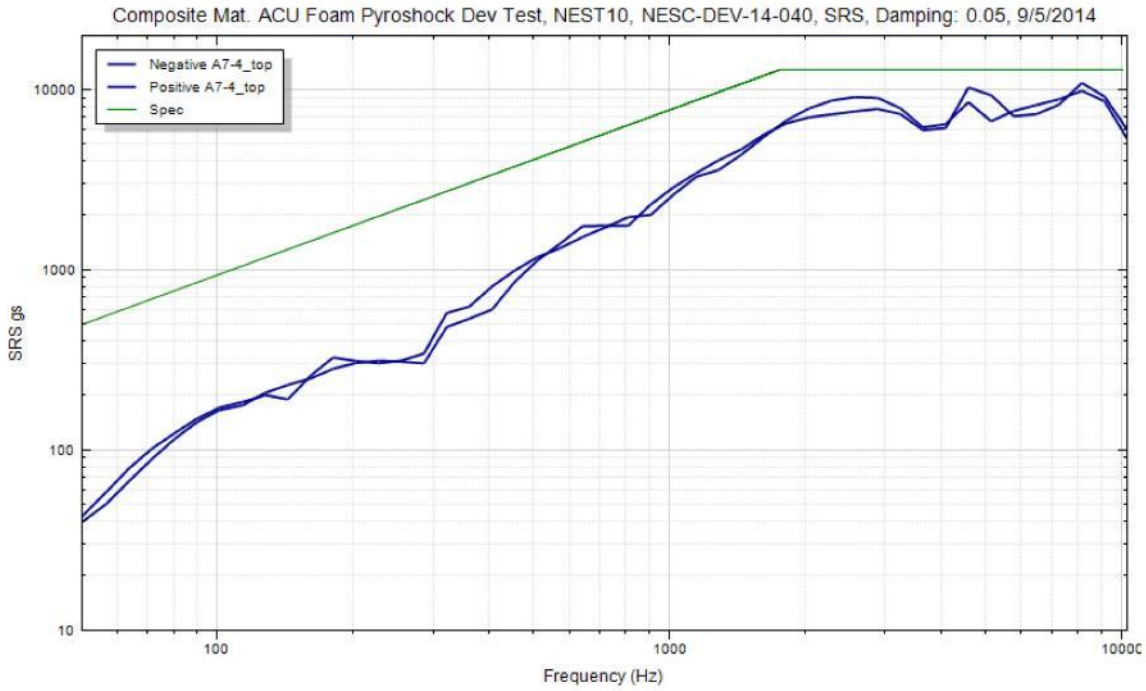
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A5-3_top
Positive A5-3_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

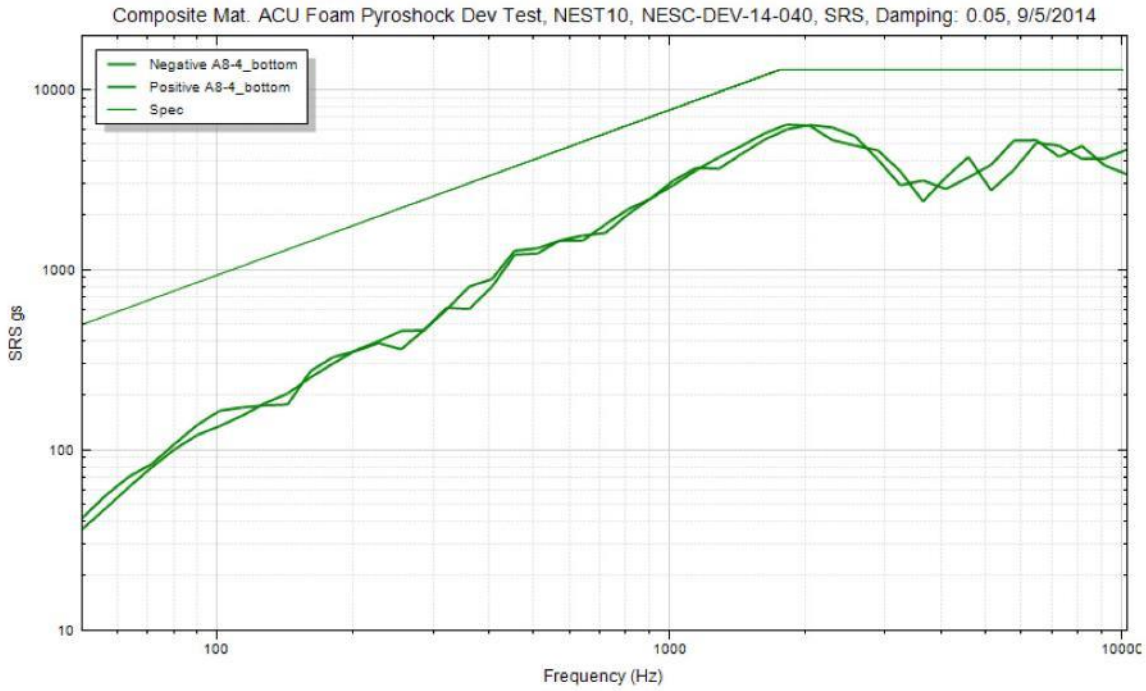
330 of 382


Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A6-3_bottom
Positive A6-3_bottom
Spec
10000
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100
10
SRS gs
100
1000
10000
Frequency (Hz)

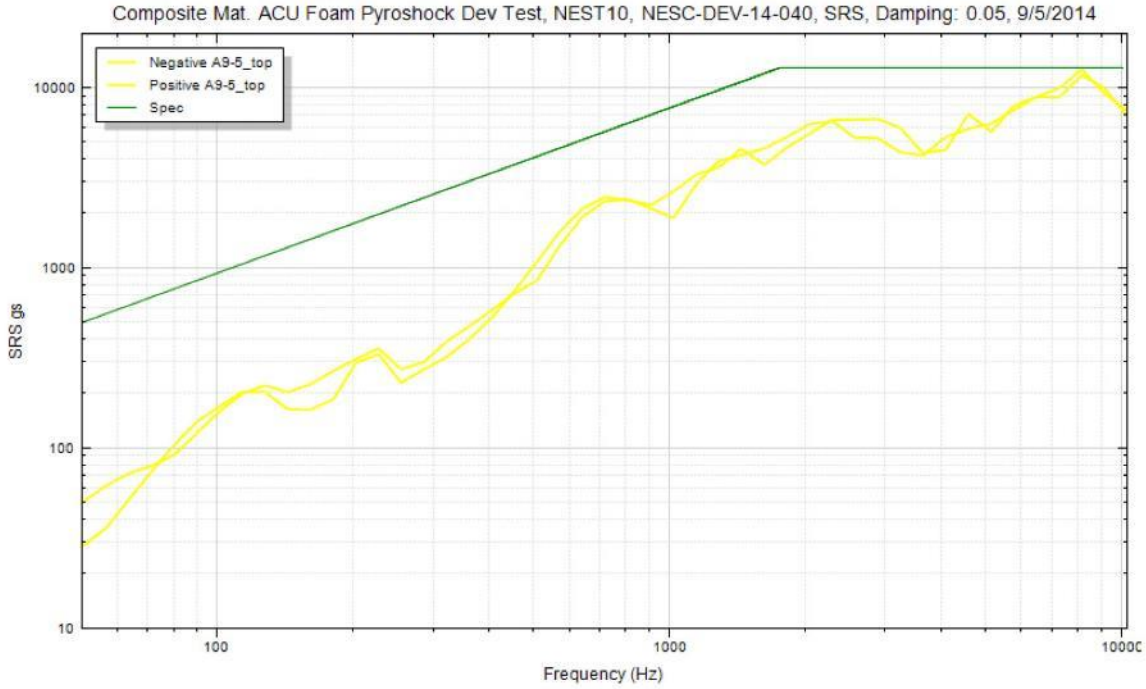
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A7-4_top
Positive A7-4_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

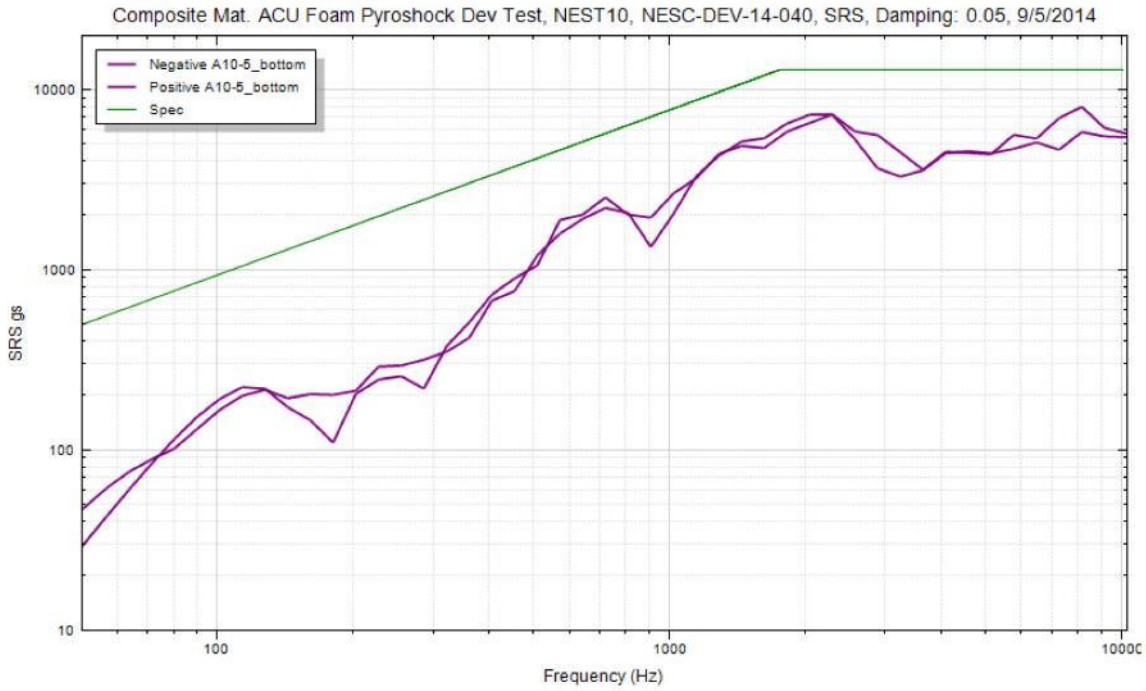
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A8-4_bottom
Positive A8-4_bottom
Spec
10000
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100
10
SRS gs
100
1000
10000
Frequency (Hz)

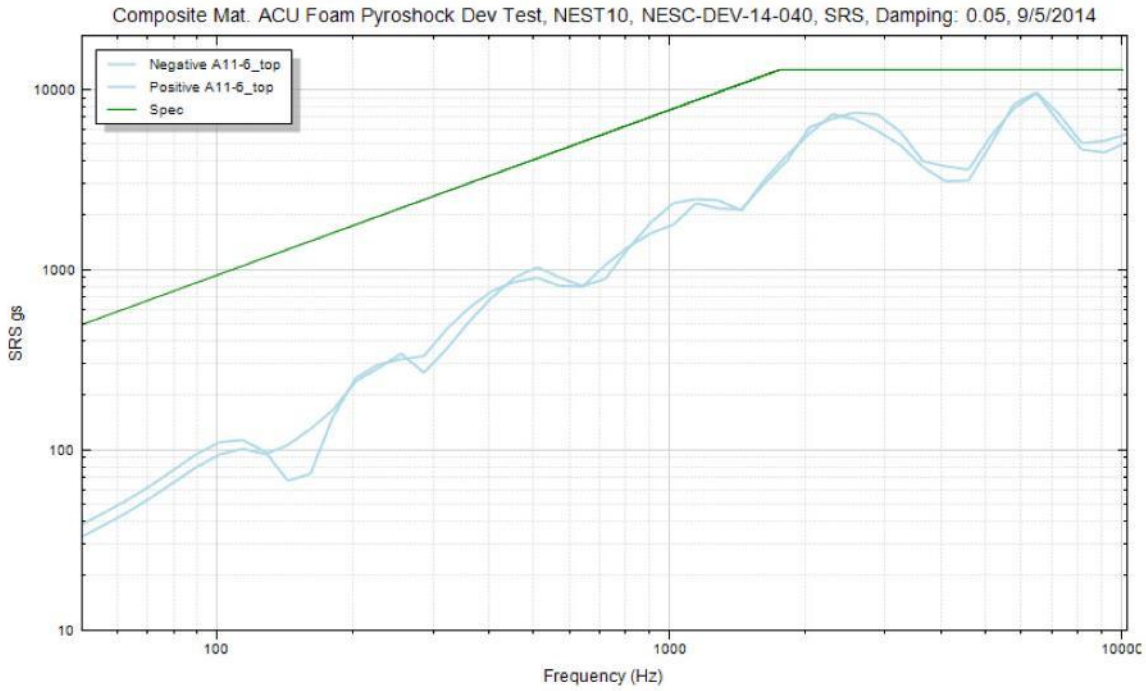
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A9-5_top
Positive A9-5_top
Spec
10000
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100
10
SRS gs
100
1000
10000
Frequency (Hz)

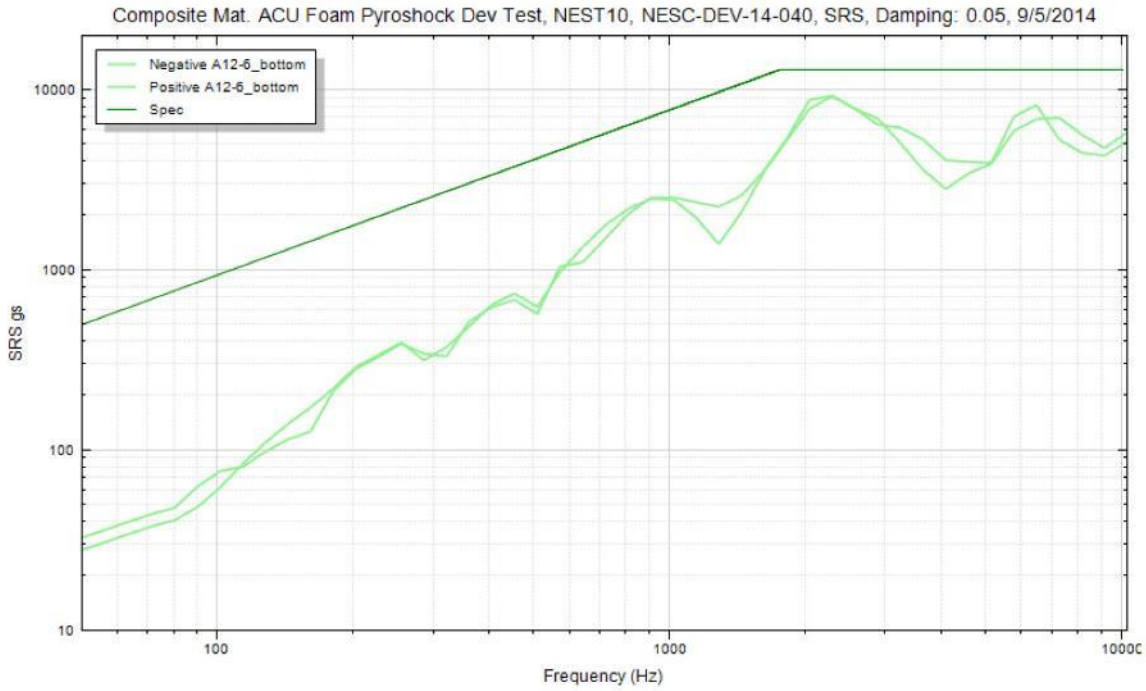
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A10-5_bottom
Positive A10-5_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

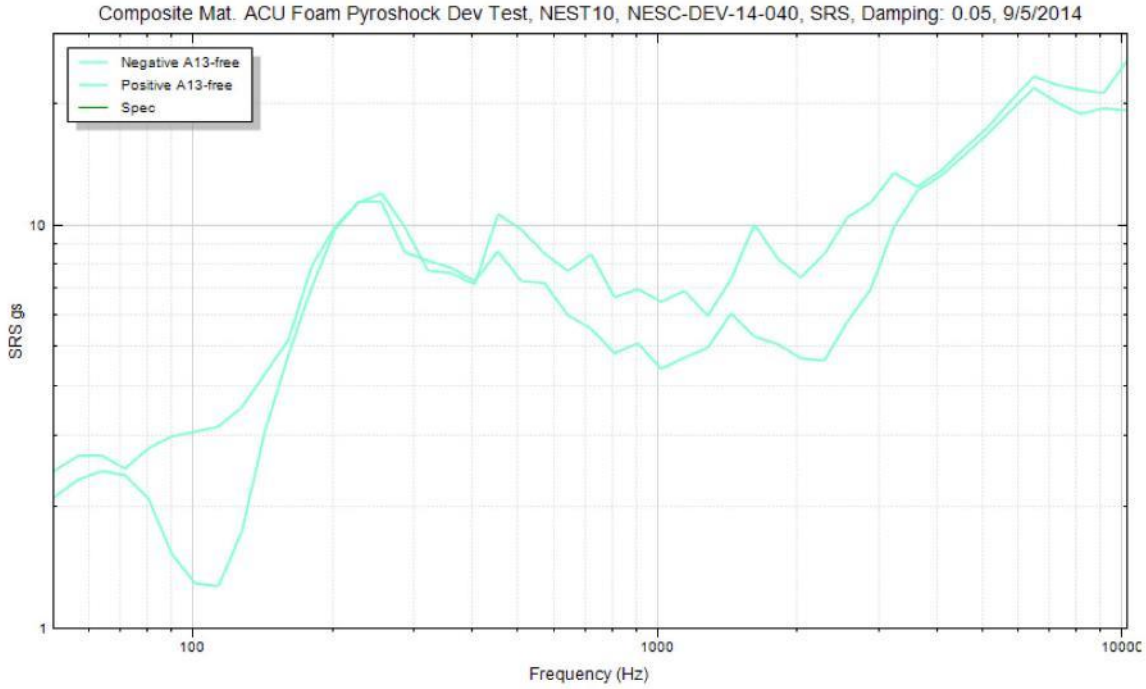
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A11-6_top
Positive A11-6_top
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

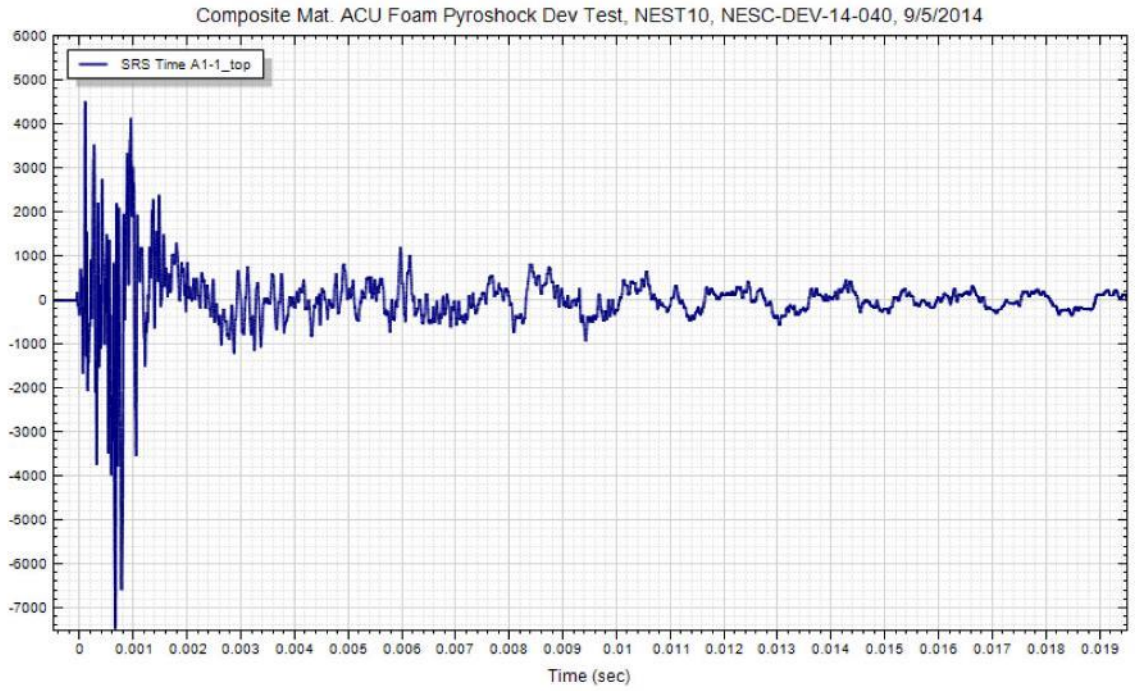
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A12-6_bottom
Positive A12-6_bottom
Spec
10000
1000
100
10
SRS gs
100
1000
10000
Frequency (Hz)

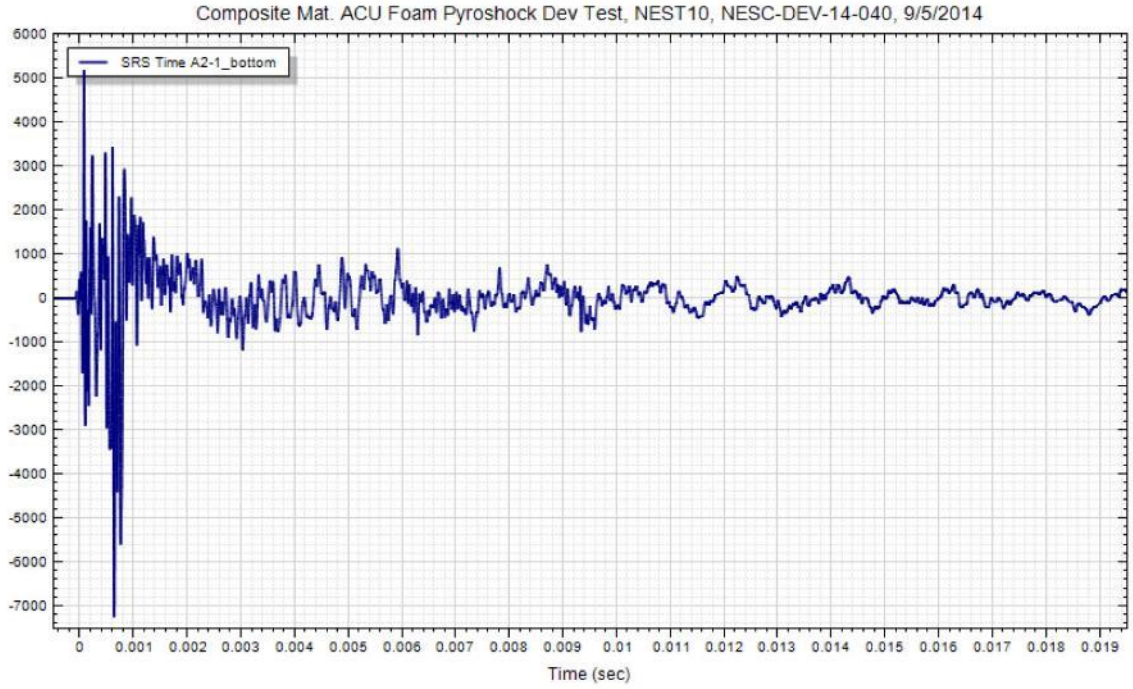
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, SRS, Damping: 0.05, 9/5/2014
Negative A13-free
Positive A13-free
Spec
SRS gs
10
1
100
1000
Frequency (Hz)

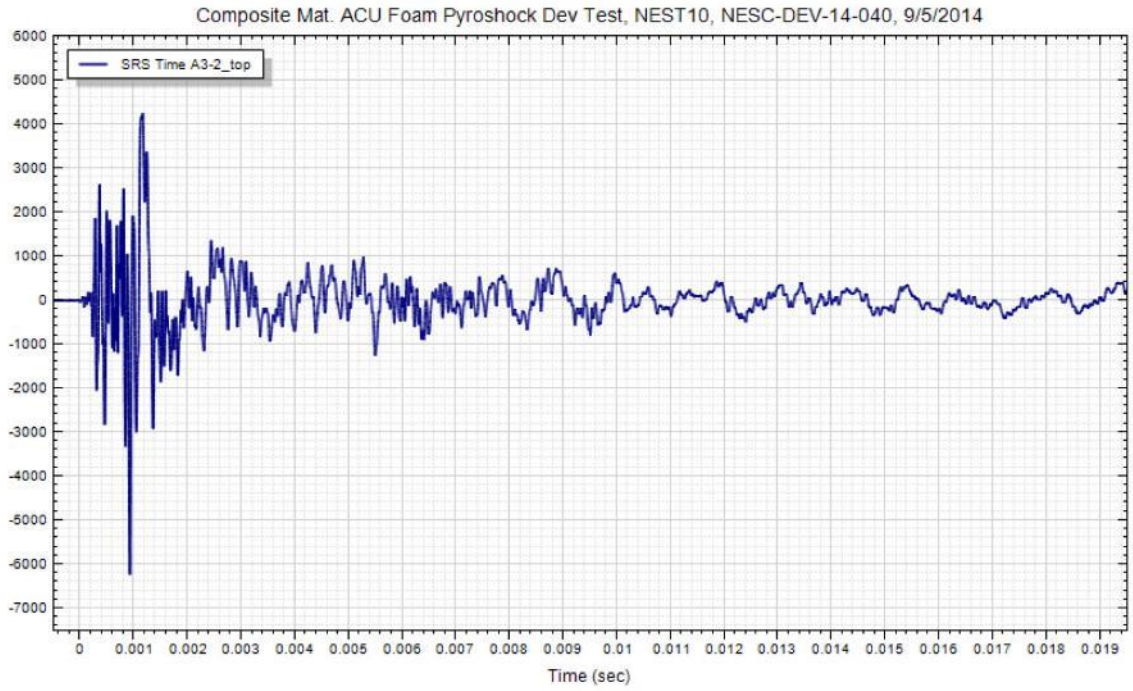
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A1-1_top
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

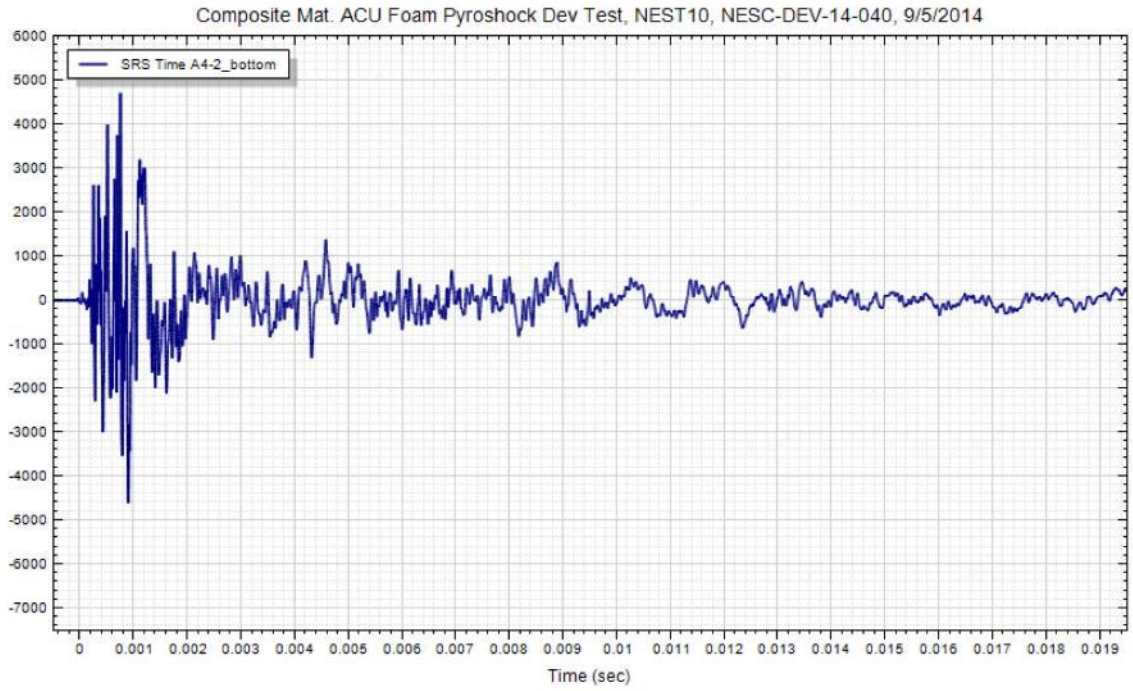
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A2-1_bottom
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

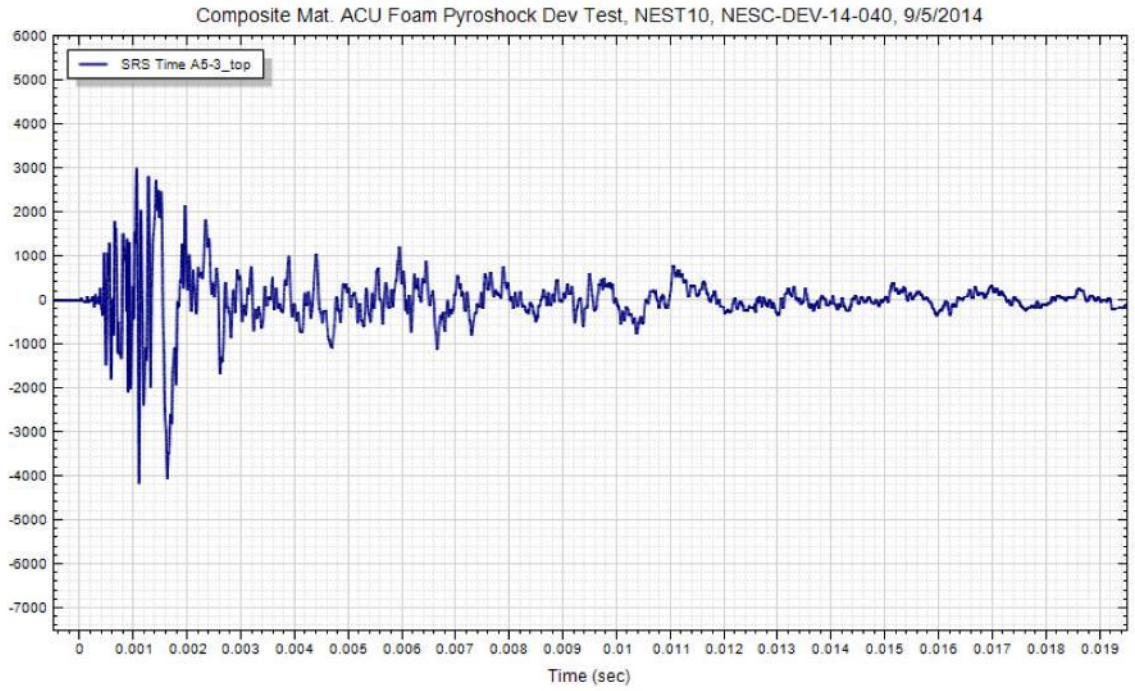
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A3-2_top
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

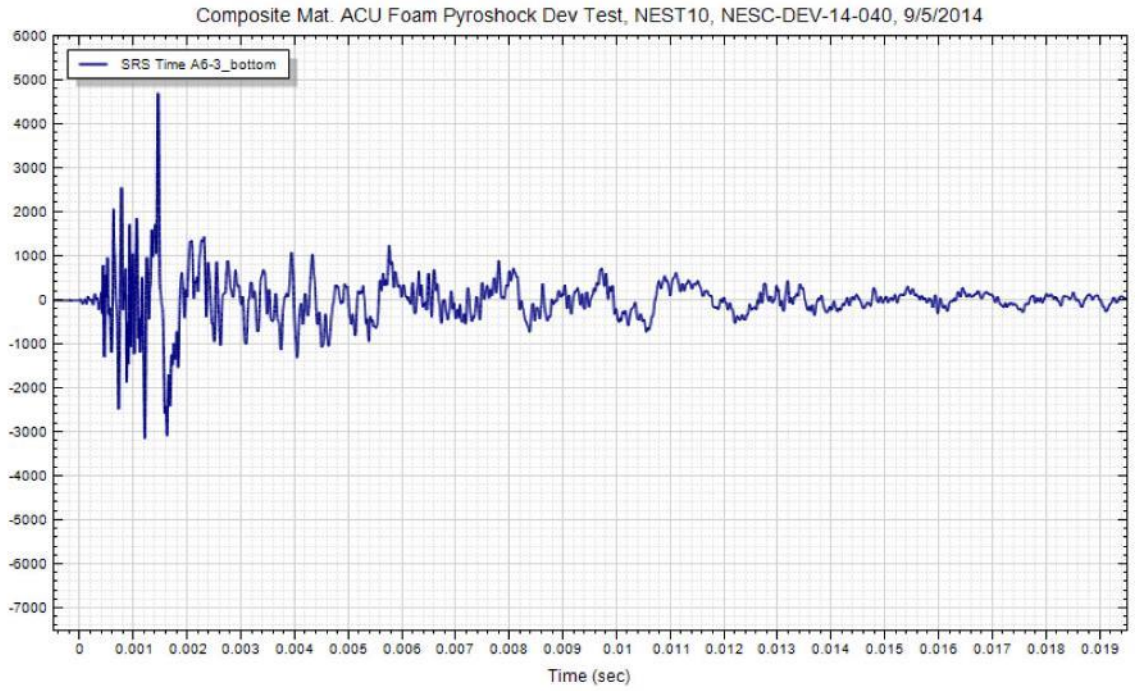
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A4-2_bottom
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

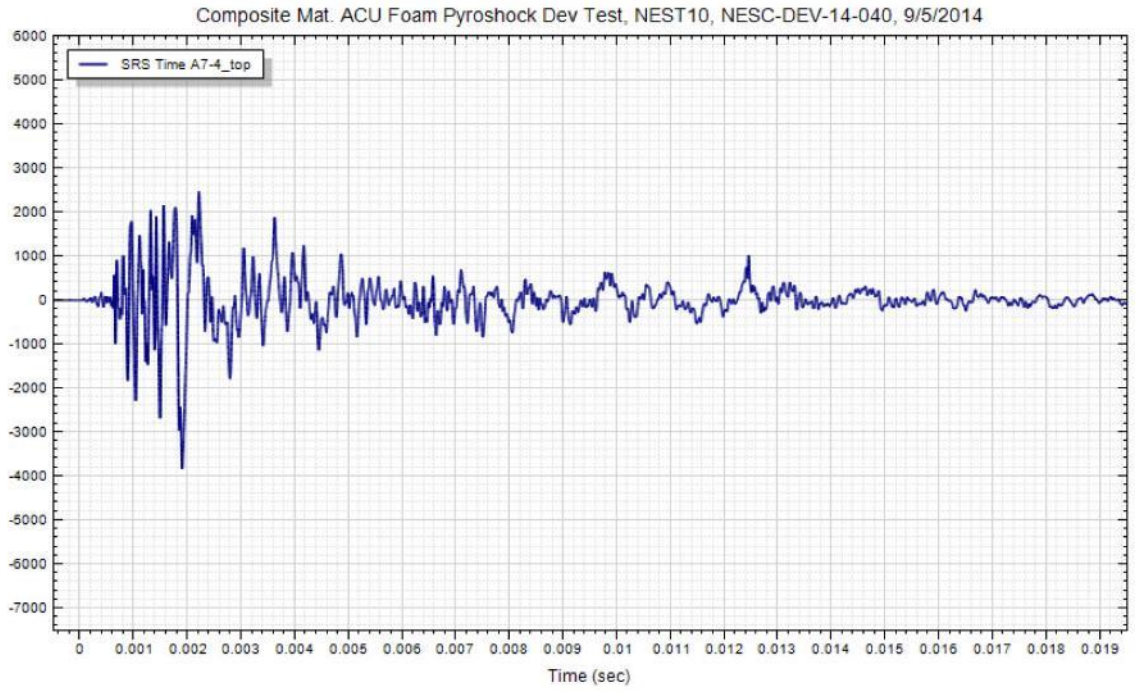
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A5-3_top
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

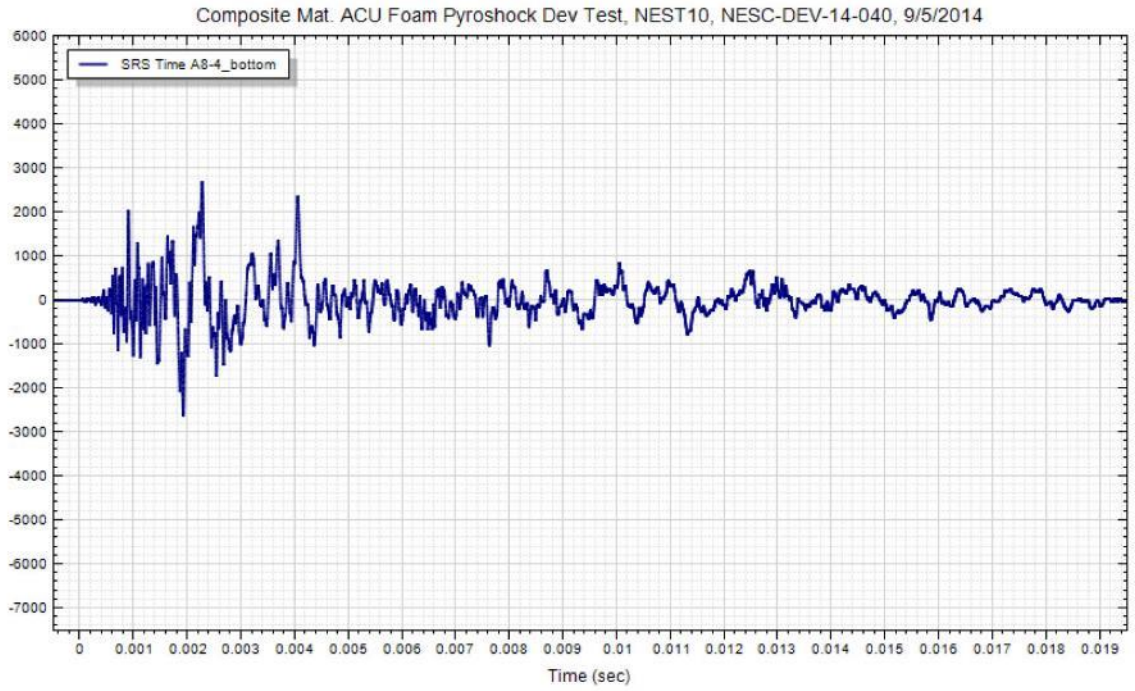
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A6-3_bottom
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

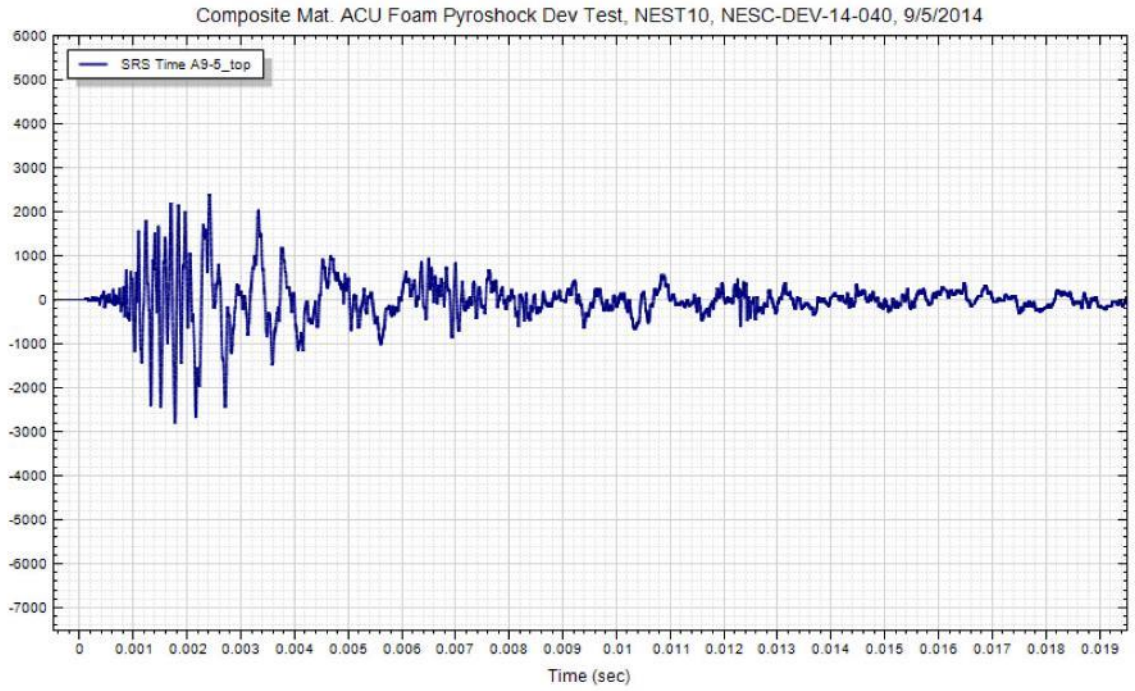
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A7-4_top
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

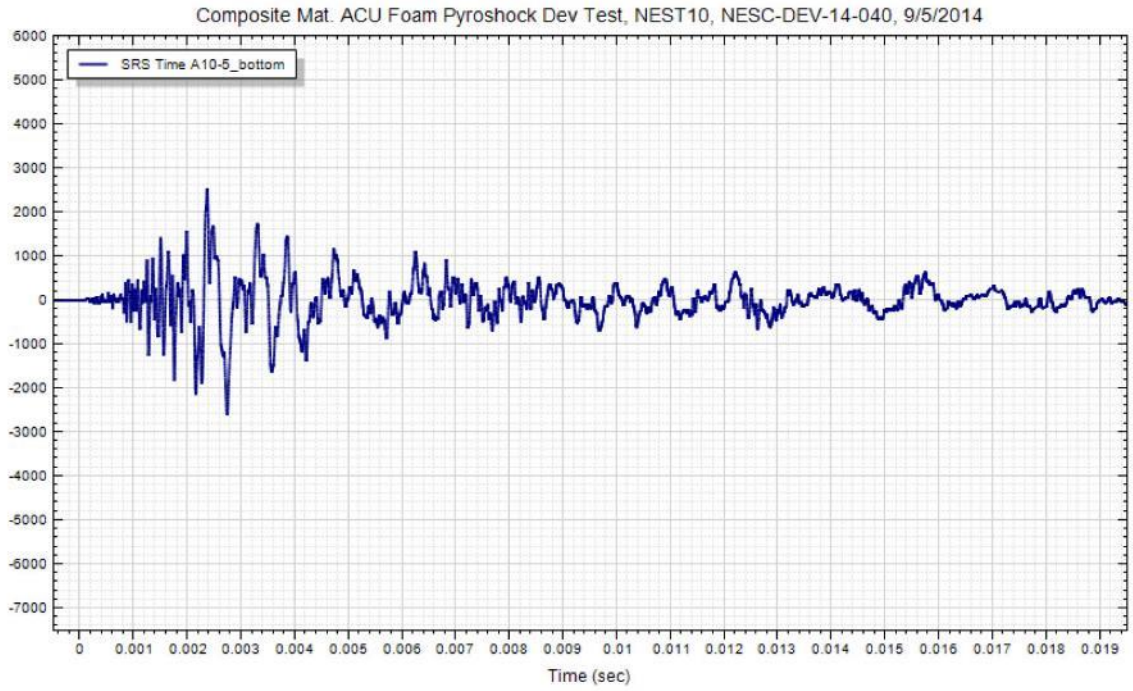
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A8-4_bottom
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

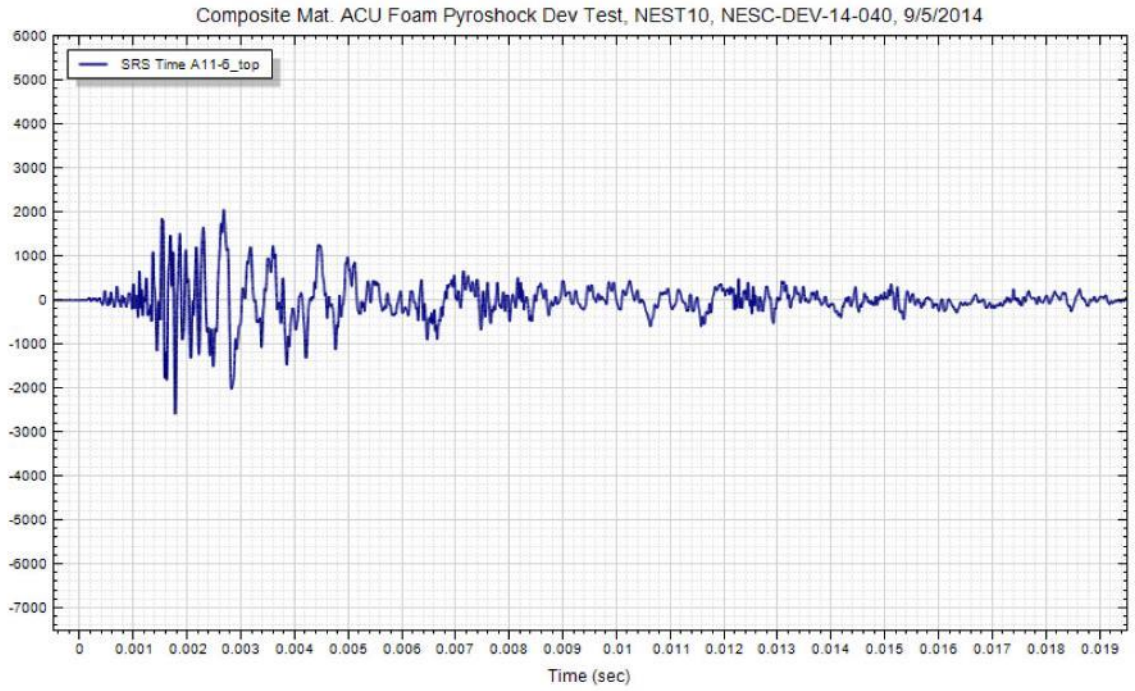
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A9-5_top
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

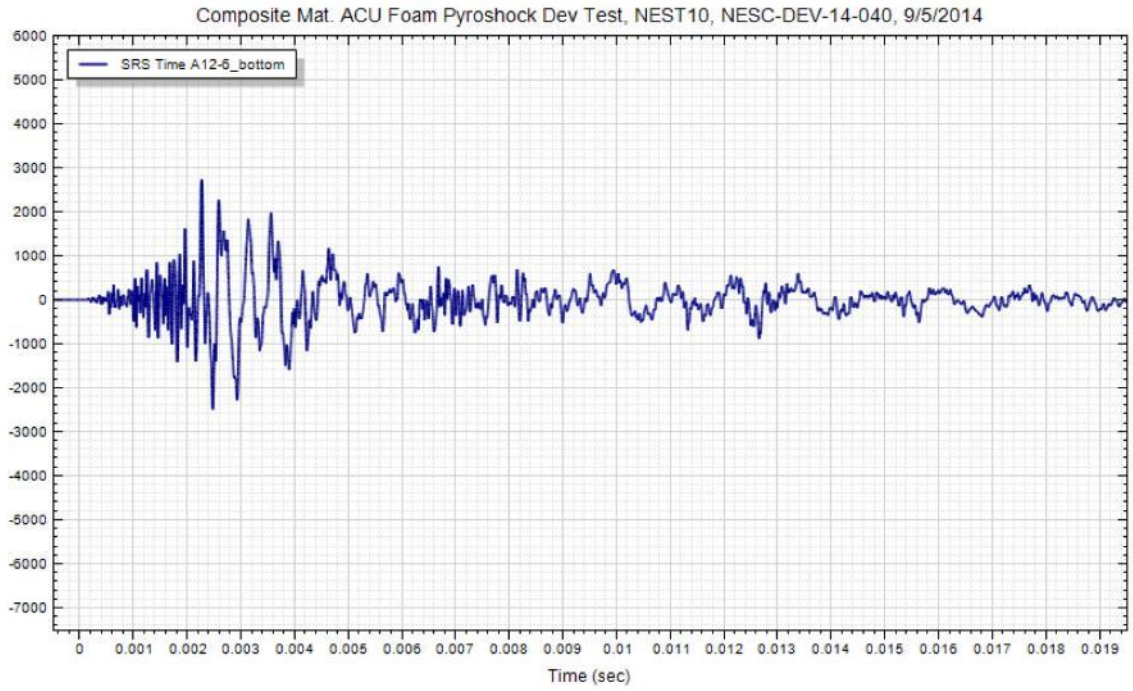
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A10-5_bottom
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

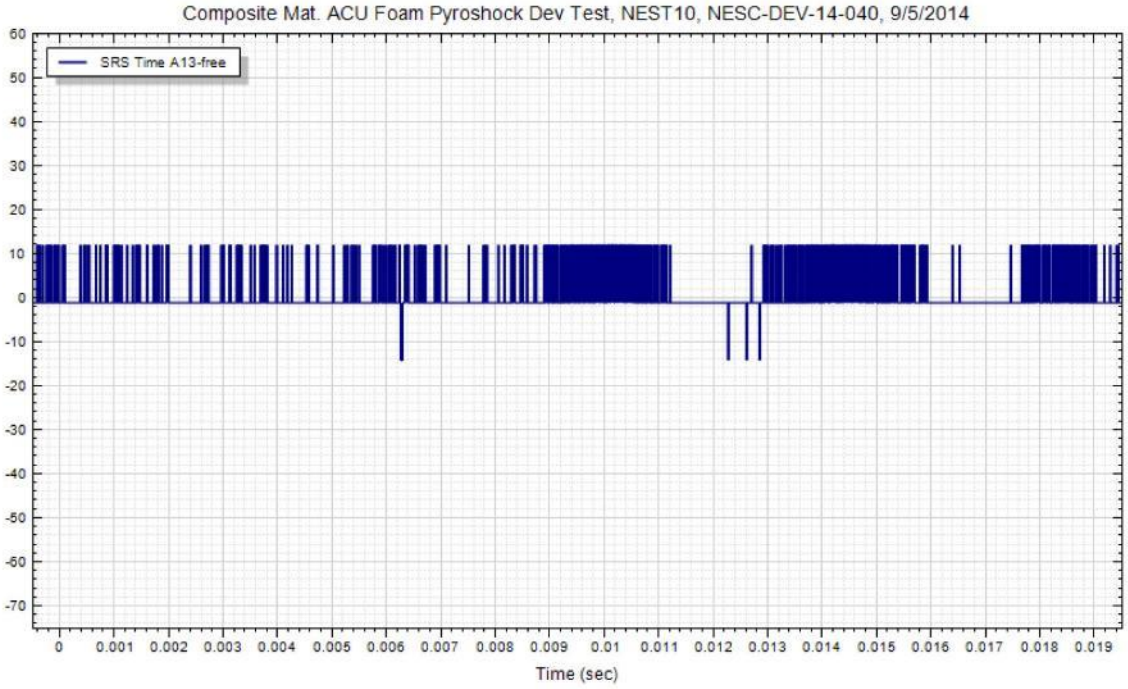
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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A11-6_top
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A12-6_bottom
6000
5000
4000
3000
2000
1000
0
-1000
-2000
-3000
-4000
-5000
-6000
-7000
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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Composite Mat. ACU Foam Pyroshock Dev Test, NEST10, NESC-DEV-14-040, 9/5/2014
SRS Time A13-free
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0.008
0.009
0.01
0.011
0.012
0.013
0.014
0.015
0.016
0.017
0.018
0.019
Time (sec)

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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test

Test and Checkout Procedure

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As Run
Record Copy

NESC-DEV-14-040
08/15/2014

George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama 35812

TEST AND CHECK-OUT PROCEDURE

ET40 / VIBRATION, ACOUSTICS, AND SHOCK TEAM

COMPOSITE MATERIALS ACOUSTIC FOAM PYROSHOCK DEVELOPMENT TEST

This Procedure Describes
Safety Critical Operations

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ET40 / Vibration, Acoustics, and Shock Team		
Composite Materials Acoustic Foam Pyroshock Development Test	NESC-DEV-14-040 Date: 08/15/2014	Revision: Baseline Page 1 of 20

PREPARED BY: John Craig Garrison — 8/20/2014
John Craig Garrison / ET40 — Date
Test Engineer

APPROVED BY: Kathy O Swofford — 8/20/2014
Kathy O. Swofford / ET40 — Date
Deputy Branch Chief
Structural Dynamics Test Branch

APPROVED BY: David Ordway — 8/20/2014
David Ordway / EV32 — Date
Aerospace Engineer, Pyrotechnics
Structural & Mechanical Design Branch
Test Requester

APPROVED BY: David Parsons — 8/20/2014
David Parsons / ES22 — Date
Structural Dynamics
Mechanical, Thermal and Life Support Branch

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1.0 INTRODUCTION

1.1 PURPOSE

The purpose of this procedure is to define the steps necessary to perform a pyrotechnic shock test in the Pyrotechnic Shock Facility in Building 4619 using pyrotechnic devices.

Test Matrix Test Articles: Ten 3'x6' composite or aluminum panels with LSC plate and LSC backing plate. The test matrix, table VII, is described in test plan.
Program: NESC Type of Test: Pyrotechnic Shock Development Test
Test Purpose: To capture the acceleration time histories for the acoustic damping material test.

The Pyrotechnic Shock Facility is located in Rooms 170, 170A and 170B of Building 4619. Room 170A is designated as the Control Room. The area between Room 169 and 170 is used for storage of secondary pyrotechnic devices. Room 170B is used for storage of initiators. All detonation of pyrotechnic devices will be in Room 170.

1.2 SCOPE

This document contains the steps and/or references the procedure to conduct the test.

2.0 SAFETY

Follow all emergency and safety requirements specified in ET01-DYN-SHK-FOP-001.

2.1 Responsibilities

The Test Engineer will be responsible for all activities occurring in the hazardous test area and for the safety of personnel involved in the test activities. It is the responsibility of each individual in a test program to fully comply with the requirements of this document and to report any individual not complying. Failure to do so could lead to serious personnel injuries or death.

3.0 TEST REQUIREMENTS AND INFORMATION

3.1 DOCUMENTS

3.1.1 APPLICABLE DOCUMENTS

Test Requirements: Pyroshock Response Characterization of Composite Materials Test Plan Revision D, NESC Task # TI-12-0783 (SLS ADO-21), 2/14/2014

Test Procedure: ET01-DYN-SHK-FOP-001 Pyrotechnic Shock Tests

97M00200-GRP II-PANEL 11-18 COMPOSITE TEST PANEL, GROUP II, TEST #11-#18
97M00200-GRP I-TEST 6-10 COMPOSITE TEST PANEL, GROUP I, TEST #6-#10
97M00201 SETUP PLATE, COMPOSITE TEST PANEL PATHFINDER
97M00202 LSC BACKING PLATE, COMPOSITE TEST PANEL PATHFINDER
97M00203-MOD1(redline) LSC PLATE, COMPOSITE TEST PANEL PATHFINDER
97M00204-MOD-2-22 LSC SHIM, COMPOSITE TEST PANEL 22 GPF LSC
2014-05-05 Redline LSC Splice Plate

3.1.2 REFERENCED DOCUMENTS

ET01-DYN-OWI-001 Documentation Control

ET01-DYN-OWI-002 Test Operation Procedure Preparation and Change Control

3.2 TEST INFORMATION

3.2.1 The instrumentation locations are given in the drawings listed in the applicable documents and appendix A for the test.

3.2.2 Pyrotechnic shock tests may be performed on the test article in the order and configuration directed by the test requester. Melamine Foam is 5' 9"x36"x4".

3.2.3 The shock test will be performed on a room temperature test article.

3.3 TEST REQUIREMENTS

3.3.1 The Test Engineer will be in charge of all test preparations and activities.

3.3.2 All activities will be coordinated with the Test Engineer.

3.3.3 All changes to the procedure will be coordinated with the Test Engineer.

3.3.4 The development test articles will be tested with pyrotechnic shock test runs as directed by the test requester. The test article information will be recorded in this TCP.

4.0 TEST DATA

a. The test data includes a time history of the real time shock recorded over a 20 millisecond or longer interval and the units are g's peak versus time.
b. The second plot is a Shock Response Spectrum (SRS) using 5% damping and a 1/6 octave shock spectrum analyzer. The SRS is computed over the frequency band from 50 to 10,000 Hertz. The SRS units are g's versus frequency.
c. The data will be acquired on a Nicolet BE256LE data acquisition system and the SRS analysis will be performed using a personal computer and the Shock

Analysis Tool Analysis Software.

d. Sample rate of 1 million samples per second will be used for response from the accelerometers.

5.0 TEST SETUP

5.1 TEST ARTICLE AND SHOCK PLATE SETUP

a. The test setup is shown in Appendix A.
b. Suspend the shock plate from ceiling using straps or cables and shackles.
c. Suspend 1 accelerometer near the plate. Connect to data system for recording.
d. At the start of each test day, complete ET01-DYN-SHK-FOP-001, section 6.

6.0 TEST OPERATION

6.1 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.

Test No.: 01 Panel #17 Date: 8/20/2014 Test Article Desc.: IM7/ TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Rohacell Foam & Tape, Aluminim LSC plate PID# 0332A017
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4' 0.5"

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Use a #12 washer between the accelerometer and the insert. Each accelerometer's torque will be to 25±5 in.-lb.
Torque wrench: M634527 Torque value: 25 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 240±10 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's torque to 240 in-lb. Right side D-rings are 220 in-lb.
Torque wrench: M650749 Torque value: 220 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed.

✓ JCA
8/20/2014

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6.2 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 02 Panel #12 Date: 8/21/2014 Test Article Desc.: IM7/ TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Al Honeycomb & Tape Face Sheets, Melamine Foam, Aluminum LSC plate PID# 0332A012
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4' 0.5"

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Use a #12 washer between the accelerometer and the insert. Each accelerometer's torque will be to 25±5 in.-lb.
Torque wrench: M634527 Torque value: 25 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 240±10 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's torque to 240 in-lb. Right side D-rings are 220 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed. ✓ JCR 8/21/2014

6.3 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 03 Panel #08 Date: 8/25/2014 Test Article Desc.: IM7/ TC350 Solid Composite Panel, Fabric Ply, see test plan for ply layup, 3'x6'x0.3", Aluminum LSC plate PID# 0326A008
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4'

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Each accelerometer's torque will be to 30±5 in.-lb.
Torque wrench: M634527 Torque value: 30 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 55±5 ft-lb.
Torque wrench: M650749 Torque value: 55 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's and right side D-ring bolt's torque to 28 ft-lb.
Torque wrench: M650749 Torque value: 28 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed. ✓ JCR 8/25/2014

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6.4 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 04 Panel #18 Date: 8/26/2014 Test Article Desc.: IM7/ TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Rohacell Foam and Tape Face Sheets, Melamine Foam, Aluminum LSC plate PID# 0332A018
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4' 0.5"

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Use a #12 washer between the accelerometer and the insert. Each accelerometer's torque will be to 25±5 in.-lb.
Torque wrench: M634527 Torque value: 25 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 240±10 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's torque to 240 in-lb. Right side D-rings are 220 in-lb.
Torque wrench: M650749 Torque value: 240/220 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed.

✓ JCD 8/26/2014

6.5 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 05 Panel #11 Date: 8/26/2014 Test Article Desc.: IM7/ TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Al Honeycomb & Tape Face Sheets, Aluminum LSC plate PID# 0332A011
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4'

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Use a #12 washer between the accelerometer and the insert. Each accelerometer's torque will be to 25±5 in.-lb.
Torque wrench: M634527 Torque value: 25 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 240±10 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's torque to 240 in-lb. Right side D-rings are 220 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed.

✓ JCD 8/26/2014

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6.6 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 06 Panel # Pathfinder Date: 8/27/2014 Test Article Desc.: Aluminum Panel, 3'x6'x0.19", Aluminum LSC plate PID# Pathfinder
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4' (2 @ 2' pieces spliced together)

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Each accelerometer's torque will be to 30±5 in.-lb.
Torque wrench: M634527 Torque value: 30 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 55±5 ft-lb.
Torque wrench: M650749 Torque value: 55 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's and right side D-ring bolt's torque to 28 ft-lb.
Torque wrench: M650749 Torque value: 28 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed. ✓ JCD 8/27/2014

COMPOSITE MATERIALS PYROSHOCK DEV. TEST

6.7 a. Record and verify the test information below and in appendix C.
Test No.: 07 Panel # Pathfinder Date: 9/2/2014 Test Article Desc.: Aluminum Panel, 3'x6'x0.19", Melamine Foam, Aluminum LSC plate PID# Pathfinder
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4'

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Each accelerometer's torque will be to 30±5 in.-lb.
Torque wrench: M634527 Torque value: 30 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 55±5 ft-lb.
Torque wrench: M650749 Torque value: 55 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's and right side D-ring bolt's torque to 28 ft-lb.
Torque wrench: M650749 Torque value: 28 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed. ✓ JCD 9/2/2014

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6.8 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 08 Panel #17 Date: 9/3/2014 Test Article Desc.: IM7/ TC350 Composite Sandwich Panel, Melamine Foam, see test plan for ply layup, 3'x6', Rohacell Foam and Tape Face Sheets, Aluminum LSC plate PID# 0332A017
Shock Source LSC Core Load:22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4'

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Use a #12 washer between the accelerometer and the insert. Each accelerometer's torque will be to 25±5 in.-lb.
Torque wrench: M634527 Torque value: 25 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 240±10 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's torque to 240 in-lb. Right side D-rings are 220 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed. ✓ JCD 9/3/2014

6.9 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 09 Panel #11 Date: 9/4/2014 Test Article Desc.: IM7/ TC350 Composite Sandwich Panel, Melamine Foam, see test plan for ply layup, 3'x6', Al Honeycomb & Tape Face Sheets, Aluminum LSC plate PID# 0332A011
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4'

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Use a #12 washer between the accelerometer and the insert. Each accelerometer's torque will be to 25±5 in.-lb.
Torque wrench: M634527 Torque value: 25 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 240±10 in-lb.
Torque wrench: M650749 Torque value: 240 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's torque to 240 in-lb. Right side D-rings are 220 in-lb.
Torque wrench: M650749 Torque value: 240/220 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed. ✓ JCD 9/4/2014

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6.10 COMPOSITE MATERIALS PYROSHOCK DEV. TEST

a. Record and verify the test information below and in appendix C.
Test No.: 10 Panel #08 Date: 9/5/2014 Test Article Desc.: IM7/ TC350 Solid Composite Panel, Melamine Foam, Fabric Ply, see test plan for ply layup, 3'x6'x0.3", Aluminum LSC plate PID# 0326A008
Shock Source LSC Core Load: 22 GR/FT Explosive Material: CH-6 Sheath: Al
Actual Length Used: 4'

b. Verify that the shock plate is ready for testing per section 5.1.
c. Instrument shock plate. Each accelerometer's torque will be to 30±5 in.-lb.
Torque wrench: M634527 Torque value: 30 Due: 11/9/2014 Cal.: 5/9/2014
d. LSC plate & LSC backer plate to Test Panel ½-13 bolt's torque to 55±5 ft-lb.
Torque wrench: M650749 Torque value: 55 Due: 10/3/2014 Cal: 4/3/2014
e. LSC plate D-ring ½-13 bolt's and right side D-ring bolt's torque to 28 ft-lb.
Torque wrench: M650749 Torque value: 28 Due: 10/3/2014 Cal: 4/3/2014
f. Photograph the locations and orientations of all accelerometers.
g. Perform the test per sections 7, 8, and 9 of ET01-DYN-SHK-FOP-001.
h. Photograph the test setup after the test. Photograph and document any post-test visually inspected observations under this test number in appendix C.
i. Verify that the test run has been completed.

√JCA
9/5/2014

7.0 RECORDS

The test report for this test will control and include the following records:
a. This "AS RUN" TCP.
b. The test data and the equipment list.

The test report is controlled by ET01-DYN-OWI-001, Documentation Control. However, due to the ITAR designation for the test results, the test report and data will be securely controlled. The test report will be available no later than 30 days after test completion. The Test Requirements will not be included in this TCP or in the report, but a copy may be filed with the report for future reference.

8.0 TOOLS, EQUIPMENT, AND MATERIALS

The equipment used during this test will be listed in a table as part of the test report. The list will include test equipment calibration due dates.

9.0 PERSONNEL TRAINING AND CERTIFICATION

Personnel certified as Propellant and Explosive Handlers are required to conduct this test.

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POST-TEST VERIFICATION

The Test and Check-out Procedure NESC-DEV-14-040 has been satisfactorily completed and documented.

John Craig Davis — Test Engineer / ET40

9/5/2014 — Date

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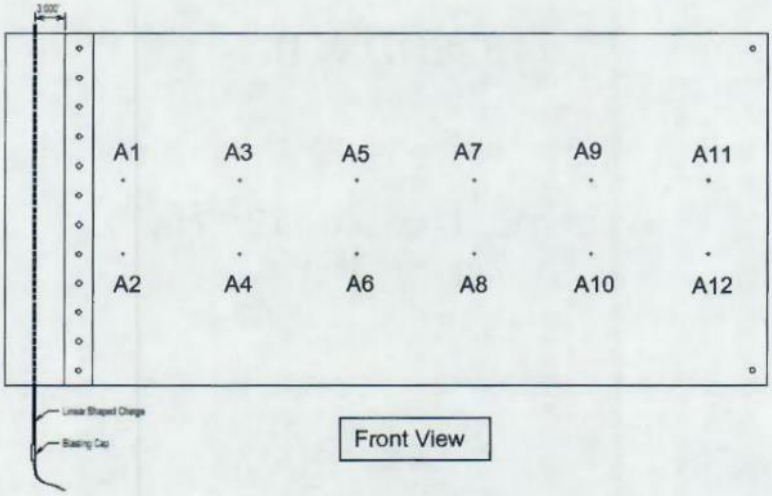
APPENDIX A

TEST SETUP

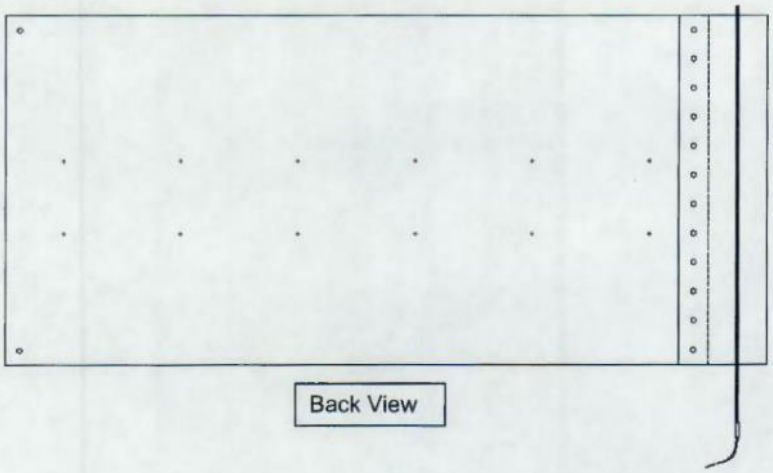
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Composite Materials Acoustic Foam Pyroshock Development Test

Test Article Panel: Sandwich or Solid Composite, Vertical Position
Supports: Straps and Shackles



Front View



Back View

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APPENDIX B

ACOUSTIC FOAM PANEL TESTS

(from the test plan)

Acoustic Foam Panel Tests

Test Order		Panel No	Type	Core Load	Dampening
1		17	Rohacell	22	0
2		12	Al Honeycomb	22	Damped
3		8	Monolithic	22	0
4		18	Rohacell	22	Damped
5		11	Al Honeycomb	22	0
6		Pathfinder	Aluminum	22	0
7		Pathfinder	Aluminum	22	Damped
8		17	Rohacell	22	Damped
9		11	Al Honeycomb	22	Damped
10		8	Monolithic	22	Damped

APPENDIX C

TEST DATA SHEET

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TEST DATA SHEET

Test No.: 01 Panel #17 Date: 8/20/2014 Test Article Desc.: IM7/TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Rohacell Foam and Tape Face Sheets, Al. LSC plate
Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP II-PANEL 17 Material: IM7/TC350 PID# 0332A017
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4' 0.5"
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	C02	31334	2	D02	43026	3	D02	43028	4	C02	31331
5	C02	31328	6	D02	43373	7	D02	43179	8	C02	31351
9	C02	31330	10	D02	43180	11	D02	43181	12	C02	40274
13	B02	11439									

Aluminum LSC panel severance: (Yes / No)
Post-test visually inspected observations: none

Test No.: 02 Panel #12 Date: 8/21/2014 Test Article Desc.: IM7/TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Al Honeycomb and Tape Face Sheets, Melamine Foam, Al. LSC plate Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP II-PANEL 12 Material: IM7/TC350 PID# 0332A012
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4' 0.5"
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	D02	43026	2	C02	31340	3	C02	31338	4	D02	43028
5	D02	43373	6	C02	31333	7	C02	40292	8	D02	43179
9	D02	43180	10	C02	40295	11	C02	31336	12	D02	43181
13	B02	11439									

Aluminum LSC panel severance: (Yes / No)
Post-test visually inspected observations: none

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TEST DATA SHEET, cont.

Test No.: 03 Panel #08 Date: 8/25/2014 Test Article Desc.: IM7/TC350 Solid Composite Panel, Fabric Ply, see test plan for ply layup, 3'x6', Al. LSC plate
Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP I-TEST 8 Material: IM7/TC350 PID# 0326A008
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4'
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	C02	31334	2	D02	43026	3	D02	43028	4	C02	31331
5	C02	31328	6	D02	43373	7	D02	43179	8	C02	31351
9	C02	31330	10	D02	43180	11	D02	43181	12	C02	40274
13	B02	11439									

Aluminum LSC panel severance: (Yes / No)
Post-test visually inspected observations: none

Test No.: 04 Panel #18 Date: 8/26/2014 Test Article Desc.: IM7/TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Rohacell Foam and Tape Face Sheets, Melamine Foam, Al. LSC plate Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP II-PANEL 18 Material: IM7/TC350 PID# 0332A018
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4' 0.5"
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	D02	43026	2	C02	31340	3	C02	31338	4	D02	43028
5	D02	43373	6	C02	31333	7	C02	40292	8	D02	43179
9	D02	43180	10	C02	40295	11	C02	31336	12	D02	43181
13	B02	11439									

Aluminum LSC panel severance: (Yes / No)
Post-test visually inspected observations: none

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TEST DATA SHEET, cont.

Test No.: 05 Panel #11 Date: 8/26/2014 Test Article Desc.: IM7/TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Al Honeycomb & Tape Face Sheets, Al. LSC plate
Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP II-PANEL 11 Material: IM7/TC350 PID# 0332A011
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4'
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	C02	31334	2	D02	43026	3	D02	43028	4	C02	31331
5	C02	31328	6	D02	43373	7	D02	43179	8	C02	31351
9	C02	31330	10	D02	43180	11	D02	43181	12	C02	40274
13	B02	11439									

Aluminum LSC panel severance: (Yes / No)
Post-test visually inspected observations: none

Test No.: 06 Panel # Pathfinder Date: 8/27/2014 Test Article Desc.: Aluminum Panel, 3'x6'x0.19", Al. LSC plate Test Article Configuration: hanging
Test Article Drawing #: 97M00201 Material: Aluminum 5052 S/N: Pathfinder
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4' (2e 2' pieces spliced together)
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	D02	43026	2	C02	31340	3	C02	31338	4	D02	43028
5	D02	43373	6	C02	31333	7	C02	40292	8	D02	43179
9	D02	43180	10	C02	40295	11	C02	31336	12	D02	43181
13	B02	11439									

Aluminum LSC panel severance: (Yes / No)
Post-test visually inspected observations: none

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TEST DATA SHEET, cont.

Test No.: 07 Panel # Pathfinder Date: 9/2/2014 Test Article Desc.: Aluminum Panel, 3'x6'x0.19", Melamine Foam, Al. LSC plate Test Article Configuration: hanging
Test Article Drawing #: 97M00201 Material: Aluminum 5052, Melamine Foam S/N: Pathfinder
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4'
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	C02	31334	2	D02	43026	3	D02	43028	4	C02	31331
5	C02	31328	6	D02	43373	7	D02	43179	8	C02	31351
9	C02	31330	10	D02	43180	11	D02	43181	12	C02	40274
13	B02	11439									

Aluminum LSC panel severance: ((Yes) / No)
Post-test visually inspected observations: none

Test No.: 08 Panel #17 Date: 9/3/2014 Test Article Desc.: IM7/TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Rohacell Foam and Tape Face Sheets, Melamine Foam, Al. LSC plate Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP II-PANEL 17 Material: IM7/TC350 PID# 0332A017
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4'
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	D02	43026	2	C02	31340	3	C02	31338	4	D02	43028
5	D02	43373	6	C02	31333	7	C02	40292	8	D02	43179
9	D02	43180	10	C02	40295	11	C02	31336	12	D02	43181
13	B02	11439									

Aluminum LSC panel severance: ((Yes) / No)
Post-test visually inspected observations: none

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ET40 / Vibration, Acoustics, and Shock Team		
Composite Materials Acoustic Foam Pyroshock Development Test	NESC-DEV-14-040 Date: 08/15/2014	Revision: Baseline Page 20 of 20

TEST DATA SHEET, cont.

Test No.: 09 Panel #11 Date: 9/4/2014 Test Article Desc.: IM7/TC350 Composite Sandwich Panel, see test plan for ply layup, 3'x6', Al Honeycomb & Tape Face Sheets, Melamine Foam, Al. LSC plate Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP II-PANEL 11 Material: IM7/TC350 PID# 0332A011
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4'
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	C02	31334	2	D02	43026	3	D02	43028	4	C02	31331
5	C02	31328	6	D02	43373	7	D02	43179	8	C02	31351
9	C02	31330	10	D02	43180	11	D02	43181	12	C02	40274
13	B02	11439									

Aluminum LSC panel severance: (Yes) / No)
Post-test visually inspected observations: none

Test No.: 10 Panel #08 Date: 9/5/2014 Test Article Desc.: IM7/TC350 Solid Composite Panel, Fabric Ply, see test plan for ply layup, 3'x6'x0.3", Melamine Foam, Al. LSC plate
Test Article Configuration: hanging
Test Article Drawing #: 97M00200-GRP I-TEST 8 Material: IM7/TC350 PID# 0326A008
Test Article Drawing #: 97M00202 Material: Aluminum S/N: Pathfinder
Test Article Drawing #: 97M00203-MOD1(redline) Material: Aluminum S/N: na
Test Article Drawing #: 97M00204-MOD-2-22 Material: Aluminum S/N: na
Shock Source: LSC L/N: none LSC Core Load: 22 GR/FT Explosive Material: CH-6
Sheath: Aluminum Actual Length Used: 4'
Accelerometer MFG: PCB Model: 350XXX

Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N	Loc.	Model	S/N
1	D02	43026	2	C02	31340	3	C02	31338	4	D02	43028
5	D02	43373	6	C02	31333	7	C02	40292	8	D02	43179
9	D02	43180	10	C02	40295	11	C02	31336	12	D02	43181
13	B02	11439									

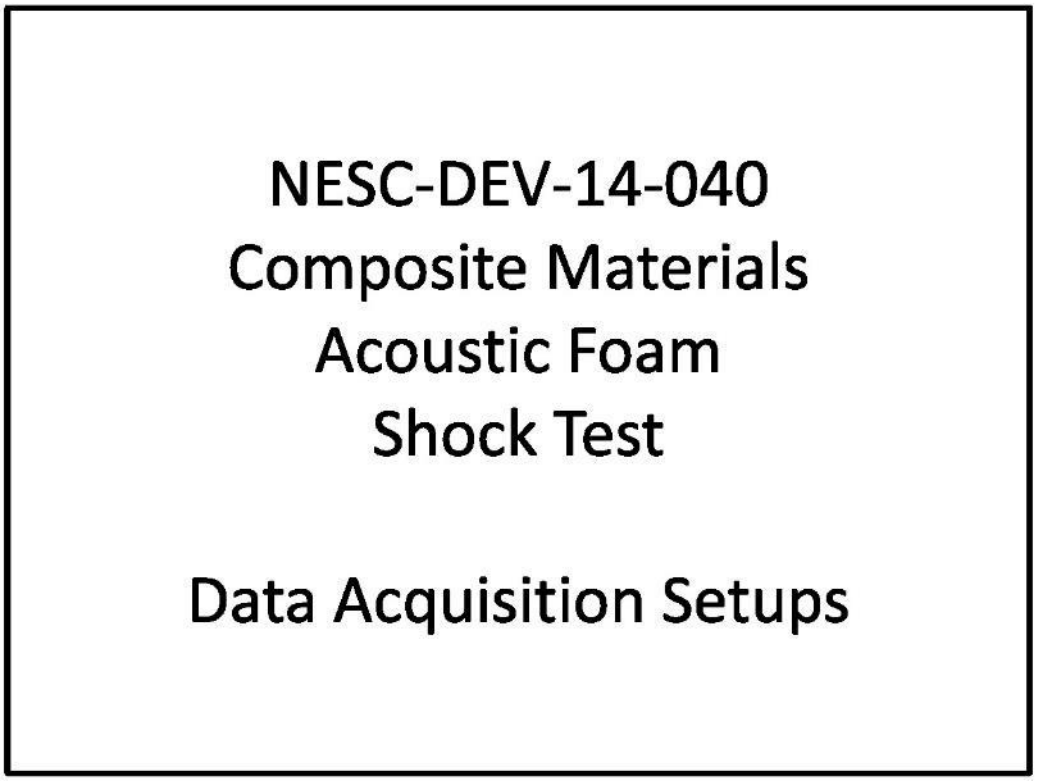
Aluminum LSC panel severance: (Yes) / No)
Post-test visually inspected observations: none

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NESC-DEV-14-040
Composite Materials
Acoustic Foam
Shock Test
Equipment List
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NESC-DEV-14-040
Equipment List

Description	Manufacturer	Model/Version	ID/Serial Number	Location	Cal Due Date
Shock Analysis Tool	ET40	1.2.5			Verified 5/21/2009
TEAM256	Nicolet	7.20			Verified 7/26/2012
Torque Wrench	Proto	6006F	M650749		10/3/2014
Torque Wrench	Precision Instruments	TEC3FUA	M634527		11/9/2014
Power Supply	Endevco	2793	M652262	Channels 1-15	1/8/2015
Data Acquisition System	Nicolet	BE256LE	2011288	Channels 2-8, 10-15	8/11/2015
Channel 2	Nicolet	614CB	001-2	A1	8/11/2015
Channel 3	Nicolet	614CB	001-3	A2	8/11/2015
Channel 4	Nicolet	614CB	001-4	A3	8/11/2015
Channel 5	Nicolet	614CB	002-1	A4	8/11/2015
Channel 6	Nicolet	614CB	002-2	A5	8/11/2015
Channel 7	Nicolet	614CB	002-3	A6	8/11/2015
Channel 8	Nicolet	614CB	002-4	A7	8/11/2015
Channel 10	Nicolet	614CB	003-2	A8	8/11/2015
Channel 11	Nicolet	614CB	003-3	A9	8/11/2015
Channel 12	Nicolet	614CB	003-4	A10	8/11/2015
Channel 13	Nicolet	614CB	004-1	A11	8/11/2015
Channel 14	Nicolet	614CB	004-2	A12	8/11/2015
Channel 15	Nicolet	614CB	004-3	A13	8/11/2015
Accelerometer	PCB	350B02	11439	A13 (Sets 1 & 2)	6/5/2015
Accelerometer	PCB	350C02	31334	Set 1 A1	1/22/2015
Accelerometer	PCB	350C02	31331	Set 1 A4	1/22/2015
Accelerometer	PCB	350C02	31328	Set 1 A5	1/22/2015
Accelerometer	PCB	350C02	31351	Set 1 A8	6/5/2015
Accelerometer	PCB	350C02	31330	Set 1 A9	6/5/2015
Accelerometer	PCB	350C02	40274	Set 1 A12	6/5/2015
Accelerometer	PCB	350C02	31340	Set 2 A2	8/19/2015
Accelerometer	PCB	350C02	31338	Set 2 A3	8/19/2015
Accelerometer	PCB	350C02	31333	Set 2 A6	8/19/2015
Accelerometer	PCB	350C02	40292	Set 2 A7	8/19/2015
Accelerometer	PCB	350C02	40295	Set 2 A10	8/19/2015
Accelerometer	PCB	350C02	31336	Set 2 A11	8/19/2015
Accelerometer	PCB	350D02	43026	Set 1 A2, Set 2 A1	1/22/2015
Accelerometer	PCB	350D02	43028	Set 1 A3, Set 2 A4	1/22/2015
Accelerometer	PCB	350D02	43373	Set 1 A6, Set 2 A5	1/22/2015
Accelerometer	PCB	350D02	43179	Set 1 A7, Set 2 A8	1/22/2015
Accelerometer	PCB	350D02	43180	Set 1 A10, Set 2 A9	1/22/2015
Accelerometer	PCB	350D02	43181	Set 1 A11, Set 2 A12	1/22/2015


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Composite Materials
Acoustic Foam
Shock Test
Data Acquisition Setups

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TEAM256 SETTINGS

Date: 08-21-2014
Time: 15:06:07

Tests 1, 3, 5, 7, and 9

********** GLOBAL SETTINGS **********

Storage Path: C:\TEAMPRO
Filename: Data
File Number: 001
Settings Path: C:\TEAM256
Settings File: NES501.SET
Export Path: D:\ATEST\NESC_6\NEST01
Export Format: FAMOS
Average Blocks: No
Between Cursors: No

********** RECORDER SETTINGS **********

BE1
Frequency A : 1.0000 MHz(Internal)
Pre Trigger : 48000 Samples (48.00 ms)
Segment A : 1000576 Samples (1.001 s)
Number of Blocks : 1
Digital Event Channels : 0
Analog Channels :

Nr.	Name	Min	Max	Units	Coup.	Amp.	Filter	Trigger
1	XXX_1	-6.000	6.000	kg's pk	GND	+	33.00 k	Off
2	NES_1	-28.85	28.85	kg's pk	DC	+	33.00 k	Basic
3	NES_2	-30.93	30.93	kg's pk	DC	+	33.00 k	Basic
4	NES_3	-31.25	31.25	kg's pk	DC	+	33.00 k	Basic
5	NES_4	-27.78	27.78	kg's pk	DC	+	33.00 k	Basic
6	NES_5	-28.04	28.04	kg's pk	DC	+	33.00 k	Basic
7	NES_6	-31.91	31.91	kg's pk	DC	+	33.00 k	Basic
8	NES_7	-30.61	30.61	kg's pk	DC	+	33.00 k	Off
9	XXX_9	-6.000	6.000	kg's pk	GND	+	33.00 k	Off
10	NES_8	-28.04	28.04	kg's pk	DC	+	33.00 k	Off
11	NES_9	-27.03	27.03	kg's pk	DC	+	33.00 k	Off
12	NES_10	-31.58	31.58	kg's pk	DC	+	33.00 k	Off
13	NES_11	-30.61	30.61	kg's pk	DC	+	33.00 k	Off
14	NES_12	-27.27	27.27	kg's pk	DC	+	33.00 k	Off
15	NES_13	-8.929	8.929	kg's pk	DC	+	33.00 k	Off
16	ROC_16	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
17	ROC_17	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
18	ROC_18	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
19	ROC_19	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
20	ROC_20	-55.56	55.56	kg's pk	DC	+	33.00 k	Off

Engineering Units Scaling
XXX_1 0 + 1.0000 k * Voltage (g's pk)
NES_1 0 + 9.6154 k * Voltage (g's pk)
NES_2 0 + 10.309 k * Voltage (g's pk)
NES_3 0 + 10.417 k * Voltage (g's pk)
NES_4 0 + 9.2593 k * Voltage (g's pk)
NES_5 0 + 9.3458 k * Voltage (g's pk)
NES_6 0 + 10.638 k * Voltage (g's pk)
NES_7 0 + 10.204 k * Voltage (g's pk)
XXX_9 0 + 1.0000 k * Voltage (g's pk)
NES_8 0 + 9.3458 k * Voltage (g's pk)

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NES_9 0 + 9.0090 k * Voltage (g's pk)
NES_10 0 + 10.526 k * Voltage (g's pk)
NES_11 0 + 10.204 k * Voltage (g's pk)
NES_12 0 + 9.0909 k * Voltage (g's pk)
NES_13 0 + 8.9286 k * Voltage (g's pk)
ROC_16 0 + 9.2593 k * Voltage (g's pk)
ROC_17 0 + 9.2593 k * Voltage (g's pk)
ROC_18 0 + 9.2593 k * Voltage (g's pk)
ROC_19 0 + 9.2593 k * Voltage (g's pk)
ROC_20 0 + 9.2593 k * Voltage (g's pk)

Trigger Settings :
Auto Trigger: Off
External Trigger: Off

Nr.	Source	Prim.	Sec.	Units	Holdoff	Width	Events
1	XXX_1			256	1	1	
2	NES_1	507.1		g's pk	256	1	1
3	NES_2	483.2		g's pk	256	1	1
4	NES_3	488.3		g's pk	256	1	1
5	NES_4	488.3		g's pk	256	1	1
6	NES_5	492.8		g's pk	256	1	1
7	NES_6	498.7		g's pk	256	1	1
8	NES_7			256	1	1	
9	XXX_9			256	1	1	
10	NES_8			256	1	1	
11	NES_9			256	1	1	
12	NES_10			256	1	1	
13	NES_11			256	1	1	
14	NES_12			256	1	1	
15	NES_13			256	1	1	
16	ROC_16			256	1	1	
17	ROC_17			256	1	1	
18	ROC_18			256	1	1	
19	ROC_19			256	1	1	
20	ROC_20			256	1	1	

TEAM256 SETTINGS
Date: 08-21-2014
Time: 14:24:45

TESTS 2, 4, 8, and 10

********** GLOBAL SETTINGS **********

Storage Path: C:\TEAMPRO
Filename: Data
File Number: 001
Settings Path: C:\TEAM256
Settings File: NES502.SET
Export Path: D:\ATEST\NESC_6\NEST02
Export Format: FAMOS
Average Blocks: No
Between Cursors: No

********** RECORDER SETTINGS **********

BE1
Frequency A : 1.0000 MHz(Internal)
Pre Trigger : 48000 Samples (48.00 ms)
Segment A : 1000576 Samples (1.001 s)
Number of Blocks : 1
Digital Event Channels : 0
Analog Channels :

Nr.	Name	Min	Max	Units	Coup.	Amp.	Filter	Trigger
1	XXX_1	-6.000	6.000	kg's pk	GND	+	33.00 k	Off
2	NES_1	-30.93	30.93	kg's pk	DC	+	33.00 k	Basic
3	NES_2	-31.58	31.58	kg's pk	DC	+	33.00 k	Basic
4	NES_3	-30.00	30.00	kg's pk	DC	+	33.00 k	Basic
5	NES_4	-31.25	31.25	kg's pk	DC	+	33.00 k	Basic
6	NES_5	-31.91	31.91	kg's pk	DC	+	33.00 k	Basic
7	NES_6	-28.57	28.57	kg's pk	DC	+	33.00 k	Basic
8	NES_7	-28.30	28.30	kg's pk	DC	+	33.00 k	Basic
9	XXX_9	-6.000	6.000	kg's pk	GND	+	33.00 k	Off
10	NES_8	-30.61	30.61	kg's pk	DC	+	33.00 k	Off
11	NES_9	-31.58	31.58	kg's pk	DC	+	33.00 k	Off
12	NES_10	-28.30	28.30	kg's pk	DC	+	33.00 k	Off
13	NES_11	-27.78	27.78	kg's pk	DC	+	33.00 k	Off
14	NES_12	-30.61	30.61	kg's pk	DC	+	33.00 k	Off
15	NES_13	-8.929	8.929	kg's pk	DC	+	33.00 k	Off
16	ROC_16	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
17	ROC_17	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
18	ROC_18	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
19	ROC_19	-55.56	55.56	kg's pk	DC	+	33.00 k	Off
20	ROC_20	-55.56	55.56	kg's pk	DC	+	33.00 k	Off

Engineering Units Scaling
XXX_1 0 + 1.0000 k * Voltage (g's pk)
NES_1 0 + 10.309 k * Voltage (g's pk)
NES_2 0 + 10.526 k * Voltage (g's pk)
NES_3 0 + 10.000 k * Voltage (g's pk)
NES_4 0 + 10.417 k * Voltage (g's pk)
NES_5 0 + 10.638 k * Voltage (g's pk)
NES_6 0 + 9.5238 k * Voltage (g's pk)
NES_7 0 + 9.4340 k * Voltage (g's pk)
XXX_9 0 + 1.0000 k * Voltage (g's pk)
NES_8 0 + 10.204 k * Voltage (g's pk)

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NES_9 0 + 10.526 k * Voltage (g's pk)
NES_10 0 + 9.4340 k * Voltage (g's pk)
NES_11 0 + 9.2593 k * Voltage (g's pk)
NES_12 0 + 10.204 k * Voltage (g's pk)
NES_13 0 + 8.9286 k * Voltage (g's pk)
ROC_16 0 + 9.2593 k * Voltage (g's pk)
ROC_17 0 + 9.2593 k * Voltage (g's pk)
ROC_18 0 + 9.2593 k * Voltage (g's pk)
ROC_19 0 + 9.2593 k * Voltage (g's pk)
ROC_20 0 + 9.2593 k * Voltage (g's pk)

Trigger Settings :
Auto Trigger: Off
External Trigger: Off

Nr.	Source	Prim.	Sec.	Units	Holdoff	Width	Events
1	XXX_1			256	1	1	
2	NES_1	483.2		g's pk	256	1	1
3	NES_2	493.4		g's pk	256	1	1
4	NES_3	468.8		g's pk	256	1	1
5	NES_4	549.3		g's pk	256	1	1
6	NES_5	561.0		g's pk	256	1	1
7	NES_6	502.2		g's pk	256	1	1
8	NES_7	497.5		g's pk	256	1	1
9	XXX_9			256	1	1	
10	NES_8			256	1	1	
11	NES_9			256	1	1	
12	NES_10			256	1	1	
13	NES_11			256	1	1	
14	NES_12			256	1	1	
15	NES_13			256	1	1	
16	ROC_16			256	1	1	
17	ROC_17			256	1	1	
18	ROC_18			256	1	1	
19	ROC_19			256	1	1	
20	ROC_20			256	1	1	

TEAM256 SETTINGS

Date: 08-27-2014
Time: 10:16:05

TEST 6

********** GLOBAL SETTINGS **********

Storage Path: C:\TEAMPRO
Filename: Data
File Number: 001
Settings Path: C:\TEAM256
Settings File: NES506.SET
Export Path: D:\ATEST\NESC_6\NEST06
Export Format: FAMOS
Average Blocks: No
Between Cursors: No

********** RECORDER SETTINGS **********

BE1
Frequency A : 1.0000 MHz(Internal)
Pre Trigger : 48000 Samples (48.00 ms)
Segment A : 1000576 Samples (1.001 s)
Number of Blocks : 1
Digital Event Channels : 0
Analog Channels :

Nr.	Name	Min	Max	Units	Coup.	Amp.	Filter	Trigger
1	XXX_1	-4.000	4.000	kg's pk	GND	+	33.00 k	Off
2	NES_1	-41.24	41.24	kg's pk	DC	+	33.00 k	Basic
3	NES_2	-42.11	42.11	kg's pk	DC	+	33.00 k	Basic
4	NES_3	-40.00	40.00	kg's pk	DC	+	33.00 k	Basic
5	NES_4	-41.67	41.67	kg's pk	DC	+	33.00 k	Basic
6	NES_5	-42.55	42.55	kg's pk	DC	+	33.00 k	Basic
7	NES_6	-38.10	38.10	kg's pk	DC	+	33.00 k	Basic
8	NES_7	-37.74	37.74	kg's pk	DC	+	33.00 k	Basic
9	XXX_9	-4.000	4.000	kg's pk	GND	+	33.00 k	Off
10	NES_8	-40.82	40.82	kg's pk	DC	+	33.00 k	Off
11	NES_9	-42.11	42.11	kg's pk	DC	+	33.00 k	Off
12	NES_10	-37.74	37.74	kg's pk	DC	+	33.00 k	Off
13	NES_11	-37.04	37.04	kg's pk	DC	+	33.00 k	Off
14	NES_12	-40.82	40.82	kg's pk	DC	+	33.00 k	Off
15	NES_13	-8.929	8.929	kg's pk	DC	+	33.00 k	Off
16	ROC_16	-37.04	37.04	kg's pk	DC	+	33.00 k	Off
17	ROC_17	-37.04	37.04	kg's pk	DC	+	33.00 k	Off
18	ROC_18	-37.04	37.04	kg's pk	DC	+	33.00 k	Off
19	ROC_19	-37.04	37.04	kg's pk	DC	+	33.00 k	Off
20	ROC_20	-37.04	37.04	kg's pk	DC	+	33.00 k	Off

Engineering Units Scaling
XXX_1 0 + 1.0000 k * Voltage (g's pk)
NES_1 0 + 10.309 k * Voltage (g's pk)
NES_2 0 + 10.526 k * Voltage (g's pk)
NES_3 0 + 10.000 k * Voltage (g's pk)
NES_4 0 + 10.417 k * Voltage (g's pk)
NES_5 0 + 10.638 k * Voltage (g's pk)
NES_6 0 + 9.5238 k * Voltage (g's pk)
NES_7 0 + 9.4340 k * Voltage (g's pk)
XXX_9 0 + 1.0000 k * Voltage (g's pk)
NES_8 0 + 10.204 k * Voltage (g's pk)

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NES_9 0 + 10.526 k * Voltage (g's pk)
NES_10 0 + 9.4340 k * Voltage (g's pk)
NES_11 0 + 9.2593 k * Voltage (g's pk)
NES_12 0 + 10.204 k * Voltage (g's pk)
NES_13 0 + 8.9286 k * Voltage (g's pk)
ROC_16 0 + 9.2593 k * Voltage (g's pk)
ROC_17 0 + 9.2593 k * Voltage (g's pk)
ROC_18 0 + 9.2593 k * Voltage (g's pk)
ROC_19 0 + 9.2593 k * Voltage (g's pk)
ROC_20 0 + 9.2593 k * Voltage (g's pk)

Trigger Settings :
Auto Trigger: Off
External Trigger: Off

Nr.	Source	Prim.	Sec.	Units	Holdoff	Width	Events
1	XXX_1			256	1	1	
2	NES_1	644.3		g's pk	256	1	1
3	NES_2	657.9		g's pk	256	1	1
4	NES_3	625.0		g's pk	256	1	1
5	NES_4	732.4		g's pk	256	1	1
6	NES_5	748.0		g's pk	256	1	1
7	NES_6	669.6		g's pk	256	1	1
8	NES_7	663.3		g's pk	256	1	1
9	XXX_9			256	1	1	
10	NES_8			256	1	1	
11	NES_9			256	1	1	
12	NES_10			256	1	1	
13	NES_11			256	1	1	
14	NES_12			256	1	1	
15	NES_13			256	1	1	
16	ROC_16			256	1	1	
17	ROC_17			256	1	1	
18	ROC_18			256	1	1	
19	ROC_19			256	1	1	
20	ROC_20			256	1	1	

Appendix C. Pyroshock Data Summary

A summary of the testing performed for this task assessment is provided in Figure C1, which includes the test configurations, test dates, and the post-test processed data results.

Date	By	Revision
12/30/2014	K Johnson	Corrected Group III run dates. Added column Type - Thick to data tabs.
1/13/2015	K Johnson	Added model tabs (worksheets for individual model reports). Delivered final database rev with corrections and rearrangements of several columns.

Database describing individual Panel and Test information.

Test No	Group	Goal	Panel No	Material	Test Date	No of Prev Tests on Panel	LSC Core Load	Panel Thickness	Ply	Type	LSC Plate	Type - Thick	=1 if LSC Plate = "Aluminum"	=1 if LSC plate was severed in test	= 1 if Damped	=1 if LSC is spliced from two or more pieces	= Y if any debonded accels are present in Test	Orientation	0 Degree	Plate Torque	Accel Torque	Accel Washer	=1 if backer plate was used; =0 if no backer plate; blank if no data	Mfg Date	Accel Config	Notes	File Name	Do not remove this column
P1	0	Pathfinder	P1	5052 Aluminum	8/10/2012	0	10	0.187	Aluminum Homogeneous		Aluminum	Aluminum - 0.187	1	1	0	0		Aluminum	1									
P2	0	Pathfinder	P1	5052 Aluminum	8/16/2012	1	22	0.187	Aluminum Homogeneous		Aluminum	Aluminum - 0.187	1	1	0	0		Aluminum	1									
P3	0	Pathfinder	P3	Composite, IM7/R913	9/10/2012	0	10	0.2	Tape	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply	1									
P4	0	Pathfinder	P4	Composite, IM7/R913	11/30/2012	0	10	0.2	Tape	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		All plies 0°; 38 ply	0									0
P5	0	Pathfinder	P5	Composite, IM7/R913	12/5/2012	0	10	0.2	Tape	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		All plies 90°; 38 ply	0									
1	*1*	*Monolithic*	*1*	*Composite, IM7/TC350*	*1/23/2013*	0	*10*	0.2	*Fabric*	*Monolithic*	*Aluminum*	*Monolithic - 0.2*	*1*	*1*	0	0		*0-Deg; 18 ply*	*0*	55	35	*0*	*1*	*11/28/2012*	*1b*		*NEST1-01_1048*	*0*
2	1	Monolithic	2	Composite, IM7/TC350	1/29/2013	0	10	0.2	Fabric	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	1	55	35	0	1	11/28/2012	1b		NEST1-02_1048	1
2R	1	Monolithic	2	Composite, IM7/TC350	12/16/2013	1	22	0.2	Fabric	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	1					11/28/2012			NESr1-04_Time1048	1
3	1	Monolithic	3	Composite, IM7/TC350	2/8/2013	0	10	0.3	Tape	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0	Y	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	1	55	35	0	1	12/13/2012	1b	A number of debonded accels	NEST1-03_1048	1
4	1	Monolithic	4	Composite, IM7/TC350	2/5/2013	0	22	0.3	Fabric	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	1	55	35	0	1	12/17/2012	1b		NEST1-04_1048	1
4R	1	Monolithic	4	Composite, IM7/TC350	12/12/2013	1	22	0.3	Fabric	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	1					12/17/2012			NESr1-02_1048	1
5	1	Monolithic	5	Composite, IM7/TC350	2/22/2013	0	22	0.2	Tape	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	1	55	35	0	1	12/20/2012	1b		NEST1-05_1048	1
6	*1*	*Monolithic*	*6*	*Composite, IM7/TC350*	*5/8/2013*	0	22	0.2	*Fabric*	*Monolithic*	*Aluminum*	*Monolithic - 0.2*	*1*	*1*	0	0		*0-Deg; 18 ply*	*0*	55	35	*0*	*0*		*1b*		*NEST1-06*	*0*
7	1	Monolithic	7	Composite, IM7/TC350	5/9/2013	0	22	0.2	Fabric	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	1	55	35	0	0		2		NEST1-07	1
8	1	Monolithic	8	Composite, IM7/TC350	5/16/2013	0	10	0.3	Fabric	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	1	55	35	0	0		3		NEST1-08	1
9	1	Monolithic	9	Composite, IM7/TC350	5/17/2013	0	22	0.3	Tape	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	1	55	35	0	0		2		NEST1-09	1
9R	1	Monolithic	9	Composite, IM7/TC350	1/23/2014	1	22	0.3	Tape	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	1								NESTr1-09_1048	1
10	1	Monolithic	10	Composite, IM7/TC350	5/29/2013	0	10	0.2	Tape	Monolithic	Aluminum	Monolithic - 0.2	1	1	0	0	Y	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	1	55	35	0	0		3	A number of debonded accels	NEST1-10	1
10R	1	Monolithic	10	Composite, IM7/TC350	1/16/2014	1	10	0.2	Tape	Monolithic	Aluminum	Monolithic - 0.2	1	0	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	1								NESr1-10_1048	1
11	2	Sandwich	11	Composite, IM7/TC350	5/31/2013	0	10	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	0	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1	20	25	1	0		2		NEST2-11_1048	1
12	2	Sandwich	14	Composite, IM7/TC350	6/28/2013	0	22	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1	20	25	1					NEST2-12_1048	1
13	2	Sandwich	13	Composite, IM7/TC350	7/16/2013	0	10	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST2-13_1048	1
14	2	Sandwich	12	Composite, IM7/TC350	7/17/2013	0	22	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1				0		3		NEST2-14_1048	1
15	2	Sandwich	16	Composite, IM7/TC350	7/18/2013	0	22	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST2-15_1048	1
16	2	Sandwich	18	Composite, IM7/TC350	7/23/2013	0	22	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST2-16_1048	1
17	2	Sandwich	15	Composite, IM7/TC350	8/9/2013	0	10	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST2-17_1048	1
18	2	Sandwich	17	Composite, IM7/TC350	8/19/2013	0	10	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST2-18_1048	1
19	3	Sever Plate	19	Composite, IM7/TC350	10/31/2013	0	10	1	Fabric	Al Honey	Fabric Composite	Al Honey - 1	0	0	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST3-19_1048	1

20	3	Sever Plate	20	Composite, IM7/TC350	11/19/2013	0	22	1	Fabric	Rohacell	Fabric Composite	Rohacell - 1	0	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST3-20_Time104	1
21	3	Sever Plate	21	Composite, IM7/TC350	12/4/2013	0	22	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST3-21_1048	1
22	3	Sever Plate	22	Composite, IM7/TC350	11/25/2013	0	10	1	Fabric	Rohacell	Aluminum	Rohacell - 1	1	0	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST3-22_Time104	1
23	3	Sever Plate	23	Composite, IM7/TC350	4/18/2014	0	10	1	Fabric	Al Honey	Aluminum	Al Honey - 1	1	0	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1							Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim		1
24	3	Sever Plate	24	Composite, IM7/TC350	4/22/2014	0	22	1	Fabric	Al Honey	Aluminum	Al Honey - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1
25	3	Sever Plate	25	Composite, IM7/TC350	6/10/2014	0	22	1	Fabric	Al Honey	Fabric Composite	Al Honey - 1	0	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1
26	3	Sever Plate	26	Composite, IM7/TC350	12/18/2013	0	22	1	Tape	Rohacell	Tape Composite	Rohacell - 1	0	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1								NEST3-26_Time104	1
27	3	Sever Plate	27	Composite, IM7/TC350	6/11/2014	0	10	1	Fabric	Rohacell	Fabric Composite	Rohacell - 1	0	0	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1
28	3	Sever Plate	28	Composite, IM7/TC350	1/24/2014	0	10	1	Tape	Al Honey	Tape Composite	Al Honey - 1	0	0	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1							Some delamination of the 32 quasi-isotropic tape ply LSC panel.	NEST3-28_1048	1
A01	4	Acoustic Foam	8	Composite, IM7/TC350	8/25/2014	1	22	0.3	Fabric	Monolithic	Aluminum	Monolithic - 0.3	1	1	0	0		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	1									1
A02	4	Acoustic Foam	8	Composite, IM7/TC350	9/5/2014	2	22	0.3	Fabric	Monolithic	Aluminum	Monolithic - 0.3	1	1	1	1		+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	1							Spliced LSC		1
A03	4	Acoustic Foam	P1	5052 Aluminum	8/27/2014	2	22	0.187	Aluminum Homogeneous		Aluminum	Aluminum - 0.187	1	1	0	1		Aluminum	1							Spliced LSC		
A04	4	Acoustic Foam	P1	5052 Aluminum	9/2/2014	3	22	0.187	Aluminum Homogeneous		Aluminum	Aluminum - 0.187	1	1	1	1		Aluminum	1							Spliced LSC		
A05	4	Acoustic Foam	17	Composite, IM7/TC350	8/20/2014	1	22	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1
A06	4	Acoustic Foam	17	Composite, IM7/TC350	9/3/2014	2	22	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	1	1		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1							Spliced LSC		1
A07	4	Acoustic Foam	18	Composite, IM7/TC350	8/26/2014	1	22	1	Tape	Rohacell	Aluminum	Rohacell - 1	1	1	1	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1
A08	4	Acoustic Foam	11	Composite, IM7/TC350	8/26/2014	1	22	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	0	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1
A09	4	Acoustic Foam	11	Composite, IM7/TC350	9/4/2014	2	22	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	1	1		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1							Spliced LSC		1
A10	4	Acoustic Foam	12	Composite, IM7/TC350	8/21/2014	1	22	1	Tape	Al Honey	Aluminum	Al Honey - 1	1	1	1	0		90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	1									1

Data SRS Prelim Params

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c	Test No	Panel No	Group	Goal	Test Date	No of Prev Tests on Panel	Distance from LSC (inch)	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Aluminum LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accels	0 Degree	Material	Orientation
1	P1	P1	0	Pathfinder	8/10/2012	0	#VALUE!	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
2	P1	P1	0	Pathfinder	8/10/2012	0	#VALUE!	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
3	P1	P1	0	Pathfinder	8/10/2012	0	9	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
4	P1	P1	0	Pathfinder	8/10/2012	0	21	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
5	P1	P1	0	Pathfinder	8/10/2012	0	33	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
6	P1	P1	0	Pathfinder	8/10/2012	0	45	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
7	P2	P1	0	Pathfinder	8/16/2012	1	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
8	P2	P1	0	Pathfinder	8/16/2012	1	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
9	P2	P1	0	Pathfinder	8/16/2012	1	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
10	P2	P1	0	Pathfinder	8/16/2012	1	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
11	P2	P1	0	Pathfinder	8/16/2012	1	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
12	P2	P1	0	Pathfinder	8/16/2012	1	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum
13	P3	P3	0	Pathfinder	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply
14	P3	P3	0	Pathfinder	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply
15	P3	P3	0	Pathfinder	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply
16	P3	P3	0	Pathfinder	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply
17	P3	P3	0	Pathfinder	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply
18	P3	P3	0	Pathfinder	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply
19	P4	P4	0	Pathfinder	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply
20	P4	P4	0	Pathfinder	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply
21	P4	P4	0	Pathfinder	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply
22	P4	P4	0	Pathfinder	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply
23	P4	P4	0	Pathfinder	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply
24	P4	P4	0	Pathfinder	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply
25	P5	P5	0	Pathfinder	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply
26	P5	P5	0	Pathfinder	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply
27	P5	P5	0	Pathfinder	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply
28	P5	P5	0	Pathfinder	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply
29	P5	P5	0	Pathfinder	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply
30	P5	P5	0	Pathfinder	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply
31	1	1	1	Monolithic	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply
32	1	1	1	Monolithic	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply
33	1	1	1	Monolithic	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply
34	1	1	1	Monolithic	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply
35	1	1	1	Monolithic	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply
36	1	1	1	Monolithic	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply
43	2	2	1	Monolithic	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply
44	2	2	1	Monolithic	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply
45	2	2	1	Monolithic	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply
46	2	2	1	Monolithic	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply
47	2	2	1	Monolithic	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply
48	2	2	1	Monolithic	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply
61	4	4	1	Monolithic	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply
62	4	4	1	Monolithic	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply
63	4	4	1	Monolithic	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply
64	4	4	1	Monolithic	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply
65	4	4	1	Monolithic	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply
66	4	4	1	Monolithic	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply
49	3	3	1	Monolithic	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply
50	3	3	1	Monolithic	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply

c	Plate Torque	Accel Torque	Accel Washer	Mfg Date	Accel Config	Notes	Backer Plate	Test (This column repeats Test No)	Output Name	Station	First Frequency Break Point (Hz)	Second Frequency Break Point (Hz)	Frequency Break Point Max (Hz)	Freq Break Censor (= 1 if more than one Freq Break Point)	First Slope (dB/Oct)	Second Slope (dB/Oct)	Slope Max (Max (First Slope; Second Slope)) (dB/Oct)	Last Slope (If one slope First Slope; if two slopes Second Slope) (dB/Oct)	First Plateau (g)	Second Plateau (g)	Plateau Max (= Max SRS Accel) (g)	No Plateaus (Number of Slopes/ Plateaus) (count)	Max SRS Freq (Hz)	Max SRS Freq Censor (=1 if Max SRS Freq = 10000)	Max SRS Accel (=Plateau Max) (g)	Max PV Freq (in/s)	Max PV Velocity (in/s)
1								P1	Ch. 1-2	1	3569		3569	0	8.8		8.8	8.8	17525		17525	1	10000	1	17525	1479	171
2								P1	Ch. 3-4	2	1829		1829	0	10.5		10.5	10.5	11295		11295	1	8414	0	11295	1622	178
3								P1	Ch. 5-6	3	2235		2235	0	9.9		9.9	9.9	12561		12561	1	9886	0	12561	1479	165
4								P1	Ch. 7-8	4	3956		3956	0	7.2		7.2	7.2	10377		10377	1	10000	1	10377	1549	178
5								P1	Ch. 9-10	5	2948		2948	0	7.9		7.9	7.9	11293		11293	1	6237	0	11293	3311	155
6								P1	Ch. 11-12	6	282	1972	1972	1	17.2	18.4	18.4	18.4	923	13285	13285	2	6607	0	13285	1738	226
7								P2	Ch. 1-2	1	2205		2205	0	9.5		9.5	9.5	15170		15170	1	3981	0	15170	3802	234
8								P2	Ch. 3-4	2	3837		3837	0	7.6		7.6	7.6	14814		14814	1	8222	0	14814	3715	173
9								P2	Ch. 5-6	3	2247		2247	0	9.2		9.2	9.2	13014		13014	1	8222	0	13014	871	191
10								P2	Ch. 7-8	4	4232		4232	0	7.5		7.5	7.5	15470		15470	1	6310	0	15470	4074	161
11								P2	Ch. 9-10	5	2923		2923	0	8		8	8	14643		14643	1	6383	0	14643	4266	179
12								P2	Ch. 11-12	6	278	4148	4148	1	17.5	7.6	17.5	7.6	1351	18641	18641	2	10000	1	18641	3802	276
13								P3	Ch. 1-2	1	1265		1265	0	11.4		11.4	11.4	9605		9605	1	10000	1	9605	1096	212
14								P3	Ch. 3-4	2	2802		2802	0	7.6		7.6	7.6	15179		15179	1	7244	0	15179	245	175
15								P3	Ch. 5-6	3	238	2145	2145	1	14.9	10.7	14.9	10.7	738	8231	8231	2	10000	1	8231	1318	163
16								P3	Ch. 7-8	4	216	1570	1570	1	23.7	15.4	23.7	15.4	1148	8496	8496	2	10000	1	8496	1202	233
17								P3	Ch. 9-10	5	210	1695	1695	1	16.5	13.4	16.5	13.4	486	11554	11554	2	10000	1	11554	1445	175
18								P3	Ch. 11-12	6	374	1651	1651	1	15.9	23.5	23.5	23.5	1816	8579	8579	2	6918	0	8579	1380	168
19								P4	Ch. 1-2	1	2869		2869	0	6		6	6	13601		13601	1	10000	1	13601	398	300
20								P4	Ch. 3-4	2	940		940	0	13.1		13.1	13.1	10268		10268	1	10000	1	10268	490	271
21								P4	Ch. 5-6	3	773	3474	3474	1	9.8	18	18	18	5137	10480	10480	2	10000	1	10480	447	281
22								P4	Ch. 7-8	4	791	3350	3350	1	7.5	12.1	12.1	12.1	4016	7299	7299	2	3508	0	7299	479	273
23								P4	Ch. 9-10	5	358	3368	3368	1	16.6	17.7	17.7	17.7	5245	7107	7107	2	3467	0	7107	550	423
24								P4	Ch. 11-12	6	356	3191	3191	1	15.2	25.7	25.7	25.7	4602	6856	6856	2	3508	0	6856	550	441
25								P5	Ch. 1-2	1	1676		1676	0	10.1		10.1	10.1	12478		12478	1	5370	0	12478	1622	309
26								P5	Ch. 3-4	2	2252		2252	0	9		9	9	15120		15120	1	6607	0	15120	1995	265
27								P5	Ch. 5-6	3	1641		1641	0	9.1		9.1	9.1	8685		8685	1	7674	0	8685	1585	315
28								P5	Ch. 7-8	4	1574		1574	0	9.2		9.2	9.2	8786		8786	1	1884	0	8786	1862	288
29								P5	Ch. 9-10	5	376	1278	1278	1	12.7	16.7	16.7	16.7	1175	10497	10497	2	1660	0	10497	1622	393
30								P5	Ch. 11-12	6	700	2593	2593	1	13.4	17.9	17.9	17.9	4099	9672	9672	2	5957	0	9672	794	273
31	55	35	0	11/28/2012	1b		1	1	Ch. 1-2	1	2644		2644	0	6.6		6.6	6.6	13982		13982	1	10000	1	13982	447	332
32	55	35	0	11/28/2012	1b		1	1	Ch. 3-4	2	2587		2587	0	5.8		5.8	5.8	12754		12754	1	8222	0	12754	513	318
33	55	35	0	11/28/2012	1b		1	1	Ch. 5-6	3	2519		2519	0	5.9		5.9	5.9	11777		11777	1	3428	0	11777	661	313
34	55	35	0	11/28/2012	1b		1	1	Ch. 7-8	4	1952		1952	0	6.2		6.2	6.2	10551		10551	1	6026	0	10551	617	341
35	55	35	0	11/28/2012	1b		1	1	Ch. 9-10	5	1989		1989	0	6.3		6.3	6.3	11626		11626	1	3273	0	11626	575	342
36	55	35	0	11/28/2012	1b		1	1	Ch. 11-12	6	377	1980	1980	1	16.6	19.2	19.2	19.2	3684	12599	12599	2	5248	0	12599	468	390
43	55	35	0	11/28/2012	1b		1	2	Ch. 1-2	1	1994		1994	0	9.6		9.6	9.6	14368		14368	1	10000	1	14368	871	255
44	55	35	0	11/28/2012	1b		1	2	Ch. 3-4	2	2440		2440	0	7.6		7.6	7.6	11514		11514	1	5248	0	11514	3467	194
45	55	35	0	11/28/2012	1b		1	2	Ch. 5-6	3	2051		2051	0	10.2		10.2	10.2	12570		12570	1	5888	0	12570	1380	241
46	55	35	0	11/28/2012	1b		1	2	Ch. 7-8	4	2492		2492	0	7.9		7.9	7.9	11525		11525	1	3758	0	11525	1413	238
47	55	35	0	11/28/2012	1b		1	2	Ch. 9-10	5	3307		3307	0	7		7	7	12773		12773	1	3802	0	12773	1514	207
48	55	35	0	11/28/2012	1b		1	2	Ch. 11-12	6	308	1876	1876	1	16.8	20.6	20.6	20.6	1190	12181	12181	2	4624	0	12181	1549	223
61	55	35	0	12/17/2012	1b		1	4	Ch. 1-2	1	2594		2594	0	7.8		7.8	7.8	11005		11005	1	10000	1	11005	1413	175
62	55	35	0	12/17/2012	1b		1	4	Ch. 3-4	2	1406		1406	0	9.5		9.5	9.5	8270		8270	1	5495	0	8270	1288	220
63	55	35	0	12/17/2012	1b		1	4	Ch. 5-6	3	2022		2022	0	9.4		9.4	9.4	8448		8448	1	8414	0	8448	1738	222
64	55	35	0	12/17/2012	1b		1	4	Ch. 7-8	4	337	2239	2239	1	12.8	12.1	12.8	12.1	986	9696	9696	2	9120	0	9696	1549	182
65	55	35	0	12/17/2012	1b		1	4	Ch. 9-10	5	266	3655	3655	1	16.1	6.9	16.1	6.9	655	9607	9607	2	5689	0	9607	2188	171
66	55	35	0	12/17/2012	1b		1	4	Ch. 11-12	6	3039		3039	0	7		7	7	9069		9069	1	6166	0	9069	447	135
49	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 1-2	1	1756		1756	0	9.5		9.5	9.5	11499		11499	1	10000	1	11499	1698	213
50	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 3-4	2	1899		1899	0	7.6		7.6	7.6	8646		8646	1	10000	1	8646	1445	258

51	3	3	1	Monolithic	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 5-6	3	1832		1832	0	8.5		8.5	8.5	9003		9003	1	7161	0	9003	1698	284
52	3	3	1	Monolithic	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 7-8	4	340	1466	1466	1	14	14.2	14.2	14.2	1401	8228	8228	2	1799	0	8228	1318	297
53	3	3	1	Monolithic	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 9-10	5	349	1643	1643	1	13.5	11	13.5	11	1138	7945	7945	2	9120	0	7945	1585	274
54	3	3	1	Monolithic	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 11-12	6	555	2487	2487	1	12.8	16.3	16.3	16.3	2709	9363	9363	2	6918	0	9363	692	219
67	5	5	1	Monolithic	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 1-2	1	2631		2631	0	7.4		7.4	7.4	13539		13539	1	9120	0	13539	741	246
68	5	5	1	Monolithic	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 3-4	2	3351		3351	0	7.1		7.1	7.1	16746		16746	1	8610	0	16746	3311	303
69	5	5	1	Monolithic	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 5-6	3	3209		3209	0	7.7		7.7	7.7	16265		16265	1	9016	0	16265	2692	269
70	5	5	1	Monolithic	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 7-8	4	2767		2767	0	8.1		8.1	8.1	13872		13872	1	5957	0	13872	2818	264
71	5	5	1	Monolithic	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 9-10	5	3087		3087	0	7.6		7.6	7.6	15586		15586	1	5888	0	15586	2630	276
72	5	5	1	Monolithic	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 11-12	6	457	2952	2952	1	14.7	12.6	14.7	12.6	2586	17671	17671	2	5248	0	17671	2754	293
73	6	6	1	Monolithic	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 1-2	1	2560		2560	0	7.2		7.2	7.2	18254		18254	1	9661	0	18254	1230	375
74	6	6	1	Monolithic	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 3-4	2	2016		2016	0	8.1		8.1	8.1	15930		15930	1	9226	0	15930	955	376
75	6	6	1	Monolithic	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 5-6	3	1372		1372	0	7.6		7.6	7.6	11264		11264	1	8222	0	11264	1072	364
76	6	6	1	Monolithic	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 7-8	4	1696		1696	0	6.5		6.5	6.5	10721		10721	1	3388	0	10721	891	368
77	6	6	1	Monolithic	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 9-10	5	1885		1885	0	5.9		5.9	5.9	13675		13675	1	2455	0	13675	1072	447
78	6	6	1	Monolithic	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 11-12	6	311	2031	2031	1	19.4	17.5	19.4	17.5	3413	13618	13618	2	2265	0	13618	2138	382
79	7	7	1	Monolithic	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 1-2	1	2500		2500	0	7.4		7.4	7.4	20354		20354	1	8710	0	20354	871	380
80	7	7	1	Monolithic	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 3-4	2	1825		1825	0	7.6		7.6	7.6	15695		15695	1	7586	0	15695	871	344
81	7	7	1	Monolithic	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 5-6	3	1089		1089	0	8.8		8.8	8.8	11437		11437	1	9772	0	11437	1023	381
82	7	7	1	Monolithic	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 7-8	4	1651		1651	0	8		8	8	10996		10996	1	8810	0	10996	1413	373
83	7	7	1	Monolithic	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 9-10	5	2354		2354	0	6.1		6.1	6.1	13602		13602	1	4898	0	13602	490	385
84	7	7	1	Monolithic	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 11-12	6	302	2303	2303	1	16.4	12.7	16.4	12.7	2943	16139	16139	2	8318	0	16139	339	482
85	8	8	1	Monolithic	5/16/2013	0	57	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 1-2	1	2759		2759	0	10		10	10	15759		15759	1	10000	1	15759	1660	171
86	8	8	1	Monolithic	5/16/2013	0	69	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 3-4	2	1495		1495	0	10.6		10.6	10.6	14657		14657	1	10000	1	14657	1445	233
87	8	8	1	Monolithic	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 5-6	3	1476		1476	0	14.3		14.3	14.3	11130		11130	1	10000	1	11130	1820	270
88	8	8	1	Monolithic	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 7-8	4	2056		2056	0	9.3		9.3	9.3	9468		9468	1	4732	0	9468	2089	256
89	8	8	1	Monolithic	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 9-10	5	2142		2142	0	10		10	10	10158		10158	1	7079	0	10158	1950	263
90	8	8	1	Monolithic	5/16/2013	0	45	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 11-12	6	2208		2208	0	9.6		9.6	9.6	10309		10309	1	6918	0	10309	1995	218
97	9	9	1	Monolithic	5/17/2013	0	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 1-2	1	1707		1707	0	9.6		9.6	9.6	9877		9877	1	10000	1	9877	1514	226
98	9	9	1	Monolithic	5/17/2013	0	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 3-4	2	1252		1252	0	10.6		10.6	10.6	9279		9279	1	6839	0	9279	1660	306
99	9	9	1	Monolithic	5/17/2013	0	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 5-6	3	945		945	0	14.5		14.5	14.5	10512		10512	1	1995	0	10512	1698	346
100	9	9	1	Monolithic	5/17/2013	0	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 7-8	4	1874		1874	0	8.5		8.5	8.5	10884		10884	1	9661	0	10884	1820	336
101	9	9	1	Monolithic	5/17/2013	0	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 9-10	5	1917		1917	0	8.9		8.9	8.9	9542		9542	1	7413	0	9542	1549	276
102	9	9	1	Monolithic	5/17/2013	0	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 11-12	6	653	2495	2495	1	12.3	19.9	19.9	19.9	2648	13631	13631	2	6761	0	13631	741	218
109	10	10	1	Monolithic	5/29/2013	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 1-2	1	3060		3060	0	8.7		8.7	8.7	22897		22897	1	10000	1	22897	1096	274
110	10	10	1	Monolithic	5/29/2013	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 3-4	2	2288		2288	0	9		9	9	18794		18794	1	8414	0	18794	1096	283
111	10	10	1	Monolithic	5/29/2013	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 5-6	3	2644		2644	0	8.3		8.3	8.3	18405		18405	1	10000	1	18405	1122	306
112	10	10	1	Monolithic	5/29/2013	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 7-8	4	1613		1613	0	10.8		10.8	10.8	12351		12351	1	3846	0	12351	1259	311
113	10	10	1	Monolithic	5/29/2013	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 9-10	5	2007		2007	0	8.5		8.5	8.5	11920		11920	1	4571	0	11920	1096	281
114	10	10	1	Monolithic	5/29/2013	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 11-12	6	516	2395	2395	1	14.4	13.6	14.4	13.6	2430	14080	14080	2	4416	0	14080	2399	300
115	11	11	2	Sandwich	5/31/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 1-2	1	2458		2458	0	10		10	10	17035		17035	1	10000	1	17035	2570	139

116	11	11	2	Sandwich	5/31/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
117	11	11	2	Sandwich	5/31/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
118	11	11	2	Sandwich	5/31/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
119	11	11	2	Sandwich	5/31/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
120	11	11	2	Sandwich	5/31/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
121	12	14	2	Sandwich	6/28/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
122	12	14	2	Sandwich	6/28/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
123	12	14	2	Sandwich	6/28/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
124	12	14	2	Sandwich	6/28/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
125	12	14	2	Sandwich	6/28/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
126	12	14	2	Sandwich	6/28/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
127	13	13	2	Sandwich	7/16/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
128	13	13	2	Sandwich	7/16/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
129	13	13	2	Sandwich	7/16/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
130	13	13	2	Sandwich	7/16/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
131	13	13	2	Sandwich	7/16/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
132	13	13	2	Sandwich	7/16/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
133	14	12	2	Sandwich	7/17/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
134	14	12	2	Sandwich	7/17/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
135	14	12	2	Sandwich	7/17/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
136	14	12	2	Sandwich	7/17/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
137	14	12	2	Sandwich	7/17/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
138	14	12	2	Sandwich	7/17/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
139	15	16	2	Sandwich	7/18/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
140	15	16	2	Sandwich	7/18/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
141	15	16	2	Sandwich	7/18/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
142	15	16	2	Sandwich	7/18/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
143	15	16	2	Sandwich	7/18/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
144	15	16	2	Sandwich	7/18/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
145	16	18	2	Sandwich	7/23/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
146	16	18	2	Sandwich	7/23/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
147	16	18	2	Sandwich	7/23/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
148	16	18	2	Sandwich	7/23/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
149	16	18	2	Sandwich	7/23/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
150	16	18	2	Sandwich	7/23/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
151	17	15	2	Sandwich	8/9/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
152	17	15	2	Sandwich	8/9/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
153	17	15	2	Sandwich	8/9/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
154	17	15	2	Sandwich	8/9/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
155	17	15	2	Sandwich	8/9/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces
156	17	15	2	Sandwich	8/9/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces

116	20	25	1		2		0	11	Ch. 3-4	2	2587		2587	0	7.7		7.7	7.7	11602		11602	1	9333	0	11602	479	173
117	20	25	1		2		0	11	Ch. 5-6	3	295	2061	2061	1	14.9	15.3	15.3	15.3	1067	10434	10434	2	9120	0	10434	295	209
118	20	25	1		2		0	11	Ch. 7-8	4	326	3128	3128	1	13.8	8.4	13.8	8.4	1021	8908	8908	2	3758	0	8908	309	190
119	20	25	1		2		0	11	Ch. 9-10	5	307	3210	3210	1	15.9	7	15.9	7	1461	8097	8097	2	3508	0	8097	457	191
120	20	25	1		2		0	11	Ch. 11-12	6	219	1778	1778	1	20.4	20.1	20.4	20.1	700	8439	8439	2	4955	0	8439	224	187
121	20	25	1					12	Ch. 1-2	1	2957		2957	0	7.8		7.8	7.8	14557		14557	1	10000	1	14557	1862	262
122	20	25	1					12	Ch. 3-4	2	311	1719	1719	1	13.9	10.9	13.9	10.9	1219	9624	9624	2	5129	0	9624	1698	306
123	20	25	1					12	Ch. 5-6	3	245	1701	1701	1	17.7	10.6	17.7	10.6	1423	8259	8259	2	4786	0	8259	245	346
124	20	25	1					12	Ch. 7-8	4	278	1930	1930	1	19.5	10.7	19.5	10.7	1964	6863	6863	2	1995	0	6863	263	358
125	20	25	1					12	Ch. 9-10	5	287	1940	1940	1	13.7	10	13.7	10	1051	8240	8240	2	1972	0	8240	1950	257
126	20	25	1					12	Ch. 11-12	6	214	1533	1533	1	20.4	15.2	20.4	15.2	624	7624	7624	2	1778	0	7624	1660	271
127								13	Ch. 1-2	1	4158		4158	0	7.6		7.6	7.6	11810		11810	1	10000	1	11810	4467	145
128								13	Ch. 3-4	2	360	2016	2016	1	17.2	12	17.2	12	1389	7534	7534	2	10000	1	7534	1905	190
129								13	Ch. 5-6	3	307	2103	2103	1	18.9	12.7	18.9	12.7	1479	6283	6283	2	10000	1	6283	240	169
130								13	Ch. 7-8	4	296	2369	2369	1	19.7	8.3	19.7	8.3	1283	4464	4464	2	4121	0	4464	257	185
131								13	Ch. 9-10	5	348	1910	1910	1	14.3	9.9	14.3	9.9	1000	5078	5078	2	1950	0	5078	1905	162
132								13	Ch. 11-12	6	230	1636	1636	1	21.2	13.9	21.2	13.9	397	5637	5637	2	1841	0	5637	1778	192
133					3		0	14	Ch. 1-2	1	2923		2923	0	6.5		6.5	6.5	13588		13588	1	7328	0	13588	933	260
134					3		0	14	Ch. 3-4	2	1198		1198	0	10.9		10.9	10.9	11460		11460	1	5129	0	11460	955	250
135					3		0	14	Ch. 5-6	3	308	2714	2714	1	16.3	9.3	16.3	9.3	1781	13169	13169	2	4842	0	13169	275	255
136					3		0	14	Ch. 7-8	4	340	2281	2281	1	13.1	10.2	13.1	10.2	1285	8454	8454	2	3846	0	8454	316	209
137					3		0	14	Ch. 9-10	5	249	2145	2145	1	17.5	10.6	17.5	10.6	1499	9768	9768	2	3467	0	9768	479	191
138					3		0	14	Ch. 11-12	6	211	1799	1799	1	21.6	16.8	21.6	16.8	1575	11453	11453	2	4786	0	11453	214	444
139						0		15	Ch. 1-2	1	3771		3771	0	6.2		6.2	6.2	16318		16318	1	7943	0	16318	933	253
140						0		15	Ch. 3-4	2	2650		2650	0	6.7		6.7	6.7	11694		11694	1	4121	0	11694	955	241
141						0		15	Ch. 5-6	3	296	2145	2145	1	17	9.8	17	9.8	1540	10038	10038	2	4315	0	10038	275	234
142						0		15	Ch. 7-8	4	385	2577	2577	1	14.3	8.5	14.3	8.5	1567	8181	8181	2	3802	0	8181	324	190
143						0		15	Ch. 9-10	5	263	2494	2494	1	17.5	8.4	17.5	8.4	1375	8493	8493	2	3350	0	8493	2188	184
144						0		15	Ch. 11-12	6	208	1735	1735	1	21.1	15.7	21.1	15.7	1362	9479	9479	2	1995	0	9479	214	388
145								16	Ch. 1-2	1	2026		2026	0	9.7		9.7	9.7	14050		14050	1	10000	1	14050	1778	271
146								16	Ch. 3-4	2	312	1690	1690	1	12.9	12.1	12.9	12.1	1427	10589	10589	2	1928	0	10589	1862	341
147								16	Ch. 5-6	3	277	1704	1704	1	17.7	13.2	17.7	13.2	1996	9001	9001	2	1995	0	9001	245	340
148								16	Ch. 7-8	4	278	1858	1858	1	19.3	11.2	19.3	11.2	1875	7201	7201	2	1972	0	7201	263	350
149								16	Ch. 9-10	5	298	1911	1911	1	12.7	11.8	12.7	11.8	1205	9232	9232	2	1950	0	9232	1905	292
150								16	Ch. 11-12	6	225	1593	1593	1	19.9	15.6	19.9	15.6	655	9354	9354	2	1841	0	9354	1698	322
151								17	Ch. 1-2	1	3152		3152	0	8.6		8.6	8.6	14466		14466	1	10000	1	14466	1738	181
152								17	Ch. 3-4	2	1653		1653	0	9.2		9.2	9.2	11093		11093	1	4266	0	11093	380	194
153								17	Ch. 5-6	3	336	2324	2324	1	18.1	13.6	18.1	13.6	2197	8921	8921	2	4121	0	8921	288	255
154								17	Ch. 7-8	4	362	3379	3379	1	15.9	8.7	15.9	8.7	1705	9639	9639	2	3846	0	9639	316	221
155								17	Ch. 9-10	5	263	2809	2809	1	20.3	9.2	20.3	9.2	1255	9565	9565	2	4677	0	9565	2188	183
156								17	Ch. 11-12	6	214	1934	1934	1	23.4	15.6	23.4	15.6	991	8747	8747	2	4467	0	8747	219	270

157	18	17	2	Sandwich	8/19/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		18	Ch. 1-2	1	2447		2447	0	9.7		9.7	9.7	10395		10395	1	5070	0	10395	1778	169
158	18	17	2	Sandwich	8/19/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		18	Ch. 3-4	2	471	2331	2331	1	14	10.1	14	10.1	1331	6624	6624	2	8035	0	6624	2042	143
159	18	17	2	Sandwich	8/19/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		18	Ch. 5-6	3	292	2282	2282	1	20.4	11.8	20.4	11.8	1201	5766	5766	2	7762	0	5766	251	145
160	18	17	2	Sandwich	8/19/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		18	Ch. 7-8	4	292	2169	2169	1	19.3	11.2	19.3	11.2	990	4782	4782	2	5070	0	4782	257	148
161	18	17	2	Sandwich	8/19/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		18	Ch. 9-10	5	405	1924	1924	1	15.3	15.8	15.8	15.8	1169	5308	5308	2	1995	0	5308	1950	165
162	18	17	2	Sandwich	8/19/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		18	Ch. 11-12	6	224	1701	1701	1	18.1	13.3	18.1	13.3	315	4303	4303	2	1972	0	4303	1698	136
163	19	19	3	Sever Plate	10/31/2013	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							19	Ch. 1-2	1	607	3281	3281	1	13.4	20.9	20.9	20.9	2621	10742	10742	2	7079	0	10742	646	236
164	19	19	3	Sever Plate	10/31/2013	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							19	Ch. 3-4	2	715	3250	3250	1	10.5	19.7	19.7	19.7	2112	8435	8435	2	10000	1	8435	562	149
165	19	19	3	Sever Plate	10/31/2013	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							19	Ch. 5-6	3	631	3408	3408	1	14	18.7	18.7	18.7	1926	7950	7950	2	10000	1	7950	525	146
166	19	19	3	Sever Plate	10/31/2013	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							19	Ch. 7-8	4	641	3440	3440	1	8.6	10	10	10	1321	7160	7160	2	3548	0	7160	3388	126
167	19	19	3	Sever Plate	10/31/2013	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							19	Ch. 9-10	5	551	3184	3184	1	10.9	22.6	22.6	22.6	1523	6428	6428	2	3802	0	6428	537	157
168	19	19	3	Sever Plate	10/31/2013	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							19	Ch. 11-12	6	420	3606	3606	1	13.6	8.1	13.6	8.1	691	6138	6138	2	4074	0	6138	2951	97
169	20	20	3	Sever Plate	11/19/2013	0	57	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							20	Ch. 1-2	1	576	6320	6320	1	14.6	8.9	14.6	8.9	3202	32442	32442	2	9772	0	32442	562	275
170	20	20	3	Sever Plate	11/19/2013	0	69	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							20	Ch. 3-4	2	489	3656	3656	1	10.1	11.3	11.3	11.3	2247	17874	17874	2	8511	0	17874	468	284
171	20	20	3	Sever Plate	11/19/2013	0	9	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							20	Ch. 5-6	3	571	3286	3286	1	10.7	13.6	13.6	13.6	1555	14719	14719	2	9016	0	14719	2818	210
172	20	20	3	Sever Plate	11/19/2013	0	21	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							20	Ch. 7-8	4	549	2920	2920	1	11.9	13.8	13.8	13.8	1794	8905	8905	2	8414	0	8905	537	194
173	20	20	3	Sever Plate	11/19/2013	0	33	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							20	Ch. 9-10	5	472	2640	2640	1	12.5	21.5	21.5	21.5	2576	7233	7233	2	7943	0	7233	468	322
174	20	20	3	Sever Plate	11/19/2013	0	45	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							20	Ch. 11-12	6	266	1597	1597	1	20.5	19.5	20.5	19.5	772	6167	6167	2	3715	0	6167	219	107
181	22	22	3	Sever Plate	11/25/2013	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		22	Ch. 1-2	1	331	1998	1998	1	17.2	17.1	17.2	17.1	513	10707	10707	2	10000	1	10707	2042	261
182	22	22	3	Sever Plate	11/25/2013	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		22	Ch. 3-4	2	392	2253	2253	1	14.8	15	15	15	830	8661	8661	2	10000	1	8661	2042	193
183	22	22	3	Sever Plate	11/25/2013	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		22	Ch. 5-6	3	308	2093	2093	1	18.9	17	18.9	17	776	6811	6811	2	10000	1	6811	1995	170
184	22	22	3	Sever Plate	11/25/2013	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		22	Ch. 7-8	4	313	1844	1844	1	16.9	19.6	19.6	19.6	626	5007	5007	2	2188	0	5007	1905	146
185	22	22	3	Sever Plate	11/25/2013	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		22	Ch. 9-10	5	443	1865	1865	1	12.6	21.4	21.4	21.4	756	4924	4924	2	1972	0	4924	1905	155
186	22	22	3	Sever Plate	11/25/2013	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0		22	Ch. 11-12	6	253	1956	1956	1	21	16.2	21	16.2	447	5014	5014	2	2089	0	5014	2042	148
175	21	21	3	Sever Plate	12/4/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							21	Ch. 1-2	1	2878		2878	0	8.8		8.8	8.8	15533		15533	1	10000	1	15533	1738	233
176	21	21	3	Sever Plate	12/4/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							21	Ch. 3-4	2	1761		1761	0	9.2		9.2	9.2	10938		10938	1	9886	0	10938	1995	226
177	21	21	3	Sever Plate	12/4/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							21	Ch. 5-6	3	361	2225	2225	1	17.4	13.7	17.4	13.7	2236	10912	10912	2	4315	0	10912	288	219
178	21	21	3	Sever Plate	12/4/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							21	Ch. 7-8	4	346	2234	2234	1	14.3	11.5	14.3	11.5	1105	7992	7992	2	3846	0	7992	1738	172
179	21	21	3	Sever Plate	12/4/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							21	Ch. 9-10	5	481	2393	2393	1	10.4	10.8	10.8	10.8	1471	8322	8322	2	3589	0	8322	2188	198
180	21	21	3	Sever Plate	12/4/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces							21	Ch. 11-12	6	222	1948	1948	1	22.5	15.2	22.5	15.2	842	10013	10013	2	2344	0	10013	1995	285
55	4R	4	1	Monolithic	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply			12/17/2012				4R	Ch. 1-2	1	3141		3141	0	7.2		7.2	7.2	12188		12188	1	6531	0	12188	977	186
56	4R	4	1	Monolithic	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply			12/17/2012				4R	Ch. 3-4	2	2708		2708	0	7.9		7.9	7.9	12597		12597	1	9661	0	12597	1202	216
57	4R	4	1	Monolithic	12/12/2013	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply			12/17/2012				4R	Ch. 5-6	3	1576		1576	0	11.6		11.6	11.6	12111		12111	1	6683	0	12111	1698	219
58	4R	4	1	Monolithic	12/12/2013	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply			12/17/2012				4R	Ch. 7-8	4	2768		2768	0	8.9		8.9	8.9	11301		11301	1	6026	0	11301	1514	178
59	4R	4	1	Monolithic	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply			12/17/2012				4R	Ch. 9-10	5	2623		2623	0	7.3		7.3	7.3	11004		11004	1	6237	0	11004	1318	223
60	4R	4	1	Monolithic	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply			12/17/2012				4R	Ch. 11-12	6	246	2685	2685	1	19.8	11.3	19.8	11.3	637	15187	15187	2	6095	0	15187	2188	176
37	2R	2	1	Monolithic	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply			11/28/2012				2R	Ch. 1-2	1	680	3355	3355	1	10.8	28.3	28.3	28.3	5837	14498	14498	2	9886	0	14498	692	311
38	2R	2	1	Monolithic	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply			11/28/2012				2R	Ch. 3-4	2	2284		2284	0	8.9		8.9	8.9	15403		15403	1	5433	0	15403	891	268
39	2R	2	1	Monolithic	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply			11/28/2012				2R	Ch. 5-6	3	1912		1912	0	9.5		9.5	9.5	13801		13801	1	5623	0	13801	955	305
40	2R	2	1	Monolithic	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply			11/28/2012				2R	Ch. 7-8	4	1229	3203	3203	1	6.9	17	17	17	5701	14176	14176	2	3467	0	14176	1096	290
41	2R	2	1	Monolithic	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply			11/28/2012				2R	Ch. 9-10	5	266	3568	3568	1	15.6	5.8	15.6	5.8	1842	14959	14959	2	3548	0	14959	245	320

42	2R	2	1	Monolithic	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1
205	26	26	3	Sever Plate	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1
206	26	26	3	Sever Plate	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1
207	26	26	3	Sever Plate	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1
208	26	26	3	Sever Plate	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1
209	26	26	3	Sever Plate	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1
210	26	26	3	Sever Plate	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1
103	10R	10	1	Monolithic	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1
104	10R	10	1	Monolithic	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1
105	10R	10	1	Monolithic	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1
106	10R	10	1	Monolithic	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1
107	10R	10	1	Monolithic	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1
108	10R	10	1	Monolithic	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1
91	9R	9	1	Monolithic	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1
92	9R	9	1	Monolithic	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1
93	9R	9	1	Monolithic	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1
94	9R	9	1	Monolithic	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1
95	9R	9	1	Monolithic	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1
96	9R	9	1	Monolithic	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1
271	28	28	3	Sever Plate	1/24/2014	0	57	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1
272	28	28	3	Sever Plate	1/24/2014	0	69	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1
273	28	28	3	Sever Plate	1/24/2014	0	9	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1
274	28	28	3	Sever Plate	1/24/2014	0	21	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1
275	28	28	3	Sever Plate	1/24/2014	0	33	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1
276	28	28	3	Sever Plate	1/24/2014	0	45	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1
187	23	23	3	Sever Plate	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1
188	23	23	3	Sever Plate	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1
189	23	23	3	Sever Plate	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1
190	23	23	3	Sever Plate	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1
191	23	23	3	Sever Plate	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1

42	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2R	Ch. 11-12	6
205	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 1-2	1
206	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 3-4	2
207	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 5-6	3
208	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 7-8	4
209	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 9-10	5
210	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 11-12	6
103	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10R	Ch. 1-2	1
104	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10R	Ch. 3-4	2
105	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10R	Ch. 5-6	3
106	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10R	Ch. 7-8	4
107	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10R	Ch. 9-10	5
108	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10R	Ch. 11-12	6
91	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9R	Ch. 1-2	1
92	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9R	Ch. 3-4	2
93	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9R	Ch. 5-6	3
94	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9R	Ch. 7-8	4
95	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9R	Ch. 9-10	5
96	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9R	Ch. 11-12	6
271	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 1-2	1
272	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 3-4	2
273	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 5-6	3
274	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 7-8	4
275	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 9-10	5
276	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 11-12	6
187	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 1-2	1
188	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 3-4	2
189	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 5-6	3
190	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 7-8	4
191	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 9-10	5

42	303	2231	2231	1	17.1	15.7	17.1	15.7	1949	15046	15046	2	4786	0	15046	275	249
205	311	3300	3300	1	20.5	12.8	20.5	12.8	1663	7476	7476	2	6310	0	7476	229	145
206	445	2872	2872	1	11.6	8.2	11.6	8.2	1256	6938	6938	2	3631	0	6938	468	150
207	336	3511	3511	1	15.4	6.4	15.4	6.4	1377	6832	6832	2	4624	0	6832	437	190
208	536	2982	2982	1	10.1	7.9	10.1	7.9	1508	5689	5689	2	3715	0	5689	589	143
209	400	3109	3109	1	12	5.8	12	5.8	1103	4816	4816	2	3589	0	4816	490	136
210	265	1846	1846	1	21.3	14.5	21.3	14.5	855	5860	5860	2	4315	0	5860	1778	125
103	843		843	0	15.4		15.4	15.4	9328		9328	1	4416	0	9328	457	234
104	744		744	0	15.7		15.7	15.7	9291		9291	1	10000	1	9291	468	345
105	1016		1016	0	13.7		13.7	13.7	12158		12158	1	9772	0	12158	479	279
106	1712		1712	0	8.6		8.6	8.6	9621		9621	1	4266	0	9621	1288	301
107	682		682	0	16.1		16.1	16.1	10153		10153	1	5129	0	10153	575	258
108	803		803	0	20.1		20.1	20.1	16717		16717	1	4677	0	16717	562	343
91	2143		2143	0	7.1		7.1	7.1	10921		10921	1	10000	1	10921	1514	216
92	2080		2080	0	8.8		8.8	8.8	15926		15926	1	9886	0	15926	1413	226
93	1241		1241	0	11.9		11.9	11.9	13369		13369	1	9661	0	13369	1585	245
94	2114		2114	0	8.3		8.3	8.3	10124		10124	1	6166	0	10124	1288	245
95	1111		1111	0	12.3		12.3	12.3	12541		12541	1	5957	0	12541	1514	193
96	1055		1055	0	13.6		13.6	13.6	13214		13214	1	6761	0	13214	891	195
271	857	3806	3806	1	14.5	9.9	14.5	9.9	3428	10071	10071	2	5495	0	10071	977	160
272	328	2852	2852	1	19.1	11.8	19.1	11.8	2258	10130	10130	2	4315	0	10130	3388	160
273	313	3394	3394	1	21.6	9.7	21.6	9.7	1978	9601	9601	2	4571	0	9601	525	147
274	681	2712	2712	1	10.8	10.1	10.8	10.1	1738	7848	7848	2	4842	0	7848	2344	141
275	299	2848	2848	1	17.2	7.9	17.2	7.9	1157	6619	6619	2	3350	0	6619	2344	135
276	285	2241	2241	1	19	13.2	19	13.2	606	8164	8164	2	4842	0	8164	2138	141
187	451	3876	3876	1	14.4	10.8	14.4	10.8	776	13582	13582	2	4266	0	13582	4169	197
188	416	2854	2854	1	8.6	15.9	15.9	15.9	626	11327	11327	2	10000	1	11327	3890	156
189	339	2969	2969	1	14	13.6	14	13.6	862	8538	8538	2	10000	1	8538	3162	139
190	361	3376	3376	1	12	10.1	12	10.1	803	8628	8628	2	10000	1	8628	324	125
191	276	3700	3700	1	19.1	10.1	19.1	10.1	986	7586	7586	2	4074	0	7586	4074	114

192	23	23	3	Sever Plate	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 11-12	6	291	2555	2555	1	14.9	15.1	15.1	15.1	660	9024	9024	2	4169	0	9024	2042	145
193	24	24	3	Sever Plate	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								24	Ch. 1-2	1	2449		2449	0	7.4		7.4	7.4	10702		10702	1	9226	0	10702	1175	225
194	24	24	3	Sever Plate	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								24	Ch. 3-4	2	1318		1318	0	11.2		11.2	11.2	10450		10450	1	3936	0	10450	1698	259
195	24	24	3	Sever Plate	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								24	Ch. 5-6	3	339	2007	2007	1	16.2	10.9	16.2	10.9	1566	8200	8200	2	3236	0	8200	339	281
196	24	24	3	Sever Plate	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								24	Ch. 7-8	4	338	2005	2005	1	13.6	12	13.6	12	1531	7486	7486	2	3802	0	7486	339	276
197	24	24	3	Sever Plate	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								24	Ch. 9-10	5	304	2205	2205	1	16.2	10.4	16.2	10.4	1565	8366	8366	2	2239	0	8366	2188	232
198	24	24	3	Sever Plate	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								24	Ch. 11-12	6	225	1588	1588	1	17	18.7	18.7	18.7	1131	7389	7389	2	2065	0	7389	229	301
199	25	25	3	Sever Plate	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								25	Ch. 1-2	1	505	3370	3370	1	16.8	10.8	16.8	10.8	1801	6571	6571	2	7674	0	6571	955	95
200	25	25	3	Sever Plate	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								25	Ch. 3-4	2	261	2108	2108	1	22.9	10	22.9	10	1208	4937	4937	2	7674	0	4937	513	142
201	25	25	3	Sever Plate	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								25	Ch. 5-6	3	328	3100	3100	1	19	6.4	19	6.4	1201	4457	4457	2	6310	0	4457	324	211
202	25	25	3	Sever Plate	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								25	Ch. 7-8	4	281	2810	2810	1	19.5	7.4	19.5	7.4	1038	3925	3925	2	9333	0	3925	331	165
203	25	25	3	Sever Plate	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								25	Ch. 9-10	5	247	2249	2249	1	23.4	8.6	23.4	8.6	1037	3365	3365	2	3162	0	3365	513	122
204	25	25	3	Sever Plate	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								25	Ch. 11-12	6	294	1761	1761	1	17.4	17.5	17.5	17.5	672	4136	4136	2	9772	0	4136	309	126
277	27	27	3	Sever Plate	6/11/2014	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		27	Ch. 1-2	1	3991		3991	0	6.7		6.7	6.7	13604		13604	1	10000	1	13604	2138	181
278	27	27	3	Sever Plate	6/11/2014	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		27	Ch. 3-4	2	322	1764	1764	1	14.2	11.4	14.2	11.4	556	7871	7871	2	4365	0	7871	1622	177
279	27	27	3	Sever Plate	6/11/2014	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		27	Ch. 5-6	3	293	1324	1324	1	17.4	15.2	17.4	15.2	464	7293	7293	2	4624	0	7293	2089	182
280	27	27	3	Sever Plate	6/11/2014	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		27	Ch. 7-8	4	302	908	908	1	11.2	24.5	24.5	24.5	511	6432	6432	2	4315	0	6432	1023	143
281	27	27	3	Sever Plate	6/11/2014	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		27	Ch. 9-10	5	498	1186	1186	1	14.2	18.8	18.8	18.8	1354	4675	4675	2	4074	0	4675	1202	152
282	27	27	3	Sever Plate	6/11/2014	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		27	Ch. 11-12	6	292	1278	1278	1	17.5	21.2	21.2	21.2	384	5309	5309	2	2089	0	5309	1995	160
235	A05	17	4	Acoustic Foam	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 1-2	1	5423		5423	0	6.5		6.5	6.5	28490		28490	1	10000	1	28490	1230	286
236	A05	17	4	Acoustic Foam	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 3-4	2	249	2095	2095	1	16.9	12.7	16.9	12.7	1630	19259	19259	2	10000	1	19259	1230	278
237	A05	17	4	Acoustic Foam	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 5-6	3	304	2208	2208	1	16.1	11	16.1	11	1726	14063	14063	2	10000	1	14063	1445	256
238	A05	17	4	Acoustic Foam	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 7-8	4	349	1906	1906	1	11.5	14.1	14.1	14.1	1123	11892	11892	2	9661	0	11892	1479	235
239	A05	17	4	Acoustic Foam	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 9-10	5	272	1673	1673	1	15.9	14.8	15.9	14.8	1581	10860	10860	2	3631	0	10860	1259	252
240	A05	17	4	Acoustic Foam	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 11-12	6	208	1418	1418	1	19.9	22.2	22.2	22.2	1669	9224	9224	2	2265	0	9224	214	476
265	A10	12	4	Acoustic Foam	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 1-2	1	3244		3244	0	5.8		5.8	5.8	15731		15731	1	8414	0	15731	295	324
266	A10	12	4	Acoustic Foam	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 3-4	2	2816		2816	0	7.8		7.8	7.8	17244		17244	1	8128	0	17244	1820	256
267	A10	12	4	Acoustic Foam	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 5-6	3	1898		1898	0	7.9		7.9	7.9	12947		12947	1	8511	0	12947	562	286
268	A10	12	4	Acoustic Foam	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 7-8	4	2490		2490	0	8.1		8.1	8.1	12470		12470	1	8511	0	12470	2089	239
269	A10	12	4	Acoustic Foam	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 9-10	5	1827		1827	0	9.4		9.4	9.4	12688		12688	1	8222	0	12688	1349	225
270	A10	12	4	Acoustic Foam	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 11-12	6	913	2106	2106	1	9.2	21	21	21	2647	10113	10113	2	6607	0	10113	2138	275
211	A01	8	4	Acoustic Foam	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 1-2	1	1823		1823	0	8.8		8.8	8.8	8801		8801	1	1905	0	8801	1778	291
212	A01	8	4	Acoustic Foam	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 3-4	2	412	1837	1837	1	15.4	12.4	15.4	12.4	2437	12045	12045	2	1995	0	12045	1905	380
213	A01	8	4	Acoustic Foam	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 5-6	3	306	1816	1816	1	20.3	14.1	20.3	14.1	2320	9947	9947	2	2065	0	9947	1995	300
214	A01	8	4	Acoustic Foam	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 7-8	4	302	1931	1931	1	18.9	11.9	18.9	11.9	1907	7338	7338	2	2042	0	7338	257	258
215	A01	8	4	Acoustic Foam	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 9-10	5	273	1910	1910	1	18.3	10.5	18.3	10.5	1256	8401	8401	2	1972	0	8401	1950	262

216	A01	8	4	Acoustic Foam	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0		A01	Ch. 11-12	6	214	1621	1621	1	20.1	14.9	20.1	14.9	488	8715	8715	2	1950	0	8715	1660	291
247	A07	18	4	Acoustic Foam	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A07	Ch. 1-2	1	771		771	0	13.6		13.6	13.6	12017		12017	1	8128	0	12017	398	311
248	A07	18	4	Acoustic Foam	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A07	Ch. 3-4	2	2786		2786	0	6.3		6.3	6.3	12631		12631	1	8610	0	12631	692	260
249	A07	18	4	Acoustic Foam	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A07	Ch. 5-6	3	319	1418	1418	1	14.8	11.5	14.8	11.5	2125	12103	12103	2	7943	0	12103	832	276
250	A07	18	4	Acoustic Foam	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A07	Ch. 7-8	4	197	1713	1713	1	16.3	7.6	16.3	7.6	912	9114	9114	2	8810	0	9114	912	281
251	A07	18	4	Acoustic Foam	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A07	Ch. 9-10	5	162	1341	1341	1	17.5	11.5	17.5	11.5	627	9785	9785	2	10000	1	9785	813	284
252	A07	18	4	Acoustic Foam	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A07	Ch. 11-12	6	260	1494	1494	1	16.3	20.9	20.9	20.9	1315	10422	10422	2	3467	0	10422	1660	327
253	A08	11	4	Acoustic Foam	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A08	Ch. 1-2	1	314	1670	1670	1	17.5	10.8	17.5	10.8	1829	12610	12610	2	8511	0	12610	1660	302
254	A08	11	4	Acoustic Foam	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A08	Ch. 3-4	2	491	1387	1387	1	11	10.5	11	10.5	2510	8942	8942	2	1758	0	8942	1349	342
255	A08	11	4	Acoustic Foam	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A08	Ch. 5-6	3	582	1518	1518	1	13.1	10.4	13.1	10.4	3181	7914	7914	2	4467	0	7914	1479	302
256	A08	11	4	Acoustic Foam	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A08	Ch. 7-8	4	516	1498	1498	1	17.1	8.6	17.1	8.6	4023	6133	6133	2	1950	0	6133	457	368
257	A08	11	4	Acoustic Foam	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A08	Ch. 9-10	5	404	945	945	1	15.8	20.3	20.3	20.3	2061	7057	7057	2	1820	0	7057	407	297
258	A08	11	4	Acoustic Foam	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0		A08	Ch. 11-12	6	404	1084	1084	1	12.7	15.1	15.1	15.1	1946	7789	7789	2	1841	0	7789	1479	283
223	A03	P1	4	Acoustic Foam	8/27/2014	2	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A03	Ch. 1-2	1	2064		2064	0	6.5		6.5	6.5	9408		9408	1	5559	0	9408	224	237
224	A03	P1	4	Acoustic Foam	8/27/2014	2	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A03	Ch. 3-4	2	2320		2320	0	7.5		7.5	7.5	10782		10782	1	8810	0	10782	1479	253
225	A03	P1	4	Acoustic Foam	8/27/2014	2	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A03	Ch. 5-6	3	1962		1962	0	9.6		9.6	9.6	9279		9279	1	5370	0	9279	1738	261
226	A03	P1	4	Acoustic Foam	8/27/2014	2	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A03	Ch. 7-8	4	2055		2055	0	8.4		8.4	8.4	8970		8970	1	5495	0	8970	1549	237
227	A03	P1	4	Acoustic Foam	8/27/2014	2	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A03	Ch. 9-10	5	303	1132	1132	1	10.2	17.2	17.2	17.2	909	9392	9392	2	6310	0	9392	1349	255
228	A03	P1	4	Acoustic Foam	8/27/2014	2	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A03	Ch. 11-12	6	312	1944	1944	1	15	13.4	15	13.4	1082	12381	12381	2	6607	0	12381	1023	167
229	A04	P1	4	Acoustic Foam	9/2/2014	3	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A04	Ch. 1-2	1	411	1789	1789	1	16	13.7	16	13.7	2141	12017	12017	2	9772	0	12017	1862	297
230	A04	P1	4	Acoustic Foam	9/2/2014	3	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A04	Ch. 3-4	2	493	1550	1550	1	14.6	14	14.6	14	2674	10233	10233	2	1905	0	10233	1820	336
231	A04	P1	4	Acoustic Foam	9/2/2014	3	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A04	Ch. 5-6	3	538	1716	1716	1	13.8	10.3	13.8	10.3	2504	8206	8206	2	1972	0	8206	1778	269
232	A04	P1	4	Acoustic Foam	9/2/2014	3	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A04	Ch. 7-8	4	498	1611	1611	1	15.9	12.6	15.9	12.6	2030	6336	6336	2	1950	0	6336	501	236
233	A04	P1	4	Acoustic Foam	9/2/2014	3	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A04	Ch. 9-10	5	428	1888	1888	1	16.4	8.9	16.4	8.9	2388	5420	5420	2	1950	0	5420	724	197
234	A04	P1	4	Acoustic Foam	9/2/2014	3	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5052 Aluminum	Aluminum	0	Spliced LSC	A04	Ch. 11-12	6	638	1562	1562	1	12.8	11	12.8	11	2625	5809	5809	2	1799	0	5809	631	247
241	A06	17	4	Acoustic Foam	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A06	Ch. 1-2	1	518		518	0	14.7		14.7	14.7	9028		9028	1	10000	1	9028	347	389
242	A06	17	4	Acoustic Foam	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A06	Ch. 3-4	2	414		414	0	18.5		18.5	18.5	10150		10150	1	5623	0	10150	398	327
243	A06	17	4	Acoustic Foam	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A06	Ch. 5-6	3	1376		1376	0	6.7		6.7	6.7	9472		9472	1	6918	0	9472	245	348
244	A06	17	4	Acoustic Foam	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A06	Ch. 7-8	4	1611		1611	0	6.9		6.9	6.9	10677		10677	1	2917	0	10677	295	369
245	A06	17	4	Acoustic Foam	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A06	Ch. 9-10	5	227	1250	1250	1	16	14.5	16	14.5	2165	11652	11652	2	6457	0	11652	214	445
246	A06	17	4	Acoustic Foam	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A06	Ch. 11-12	6	243	1525	1525	1	19.1	19	19.1	19	2444	10981	10981	2	1928	0	10981	229	403
259	A09	11	4	Acoustic Foam	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A09	Ch. 1-2	1	795		795	0	15.2		15.2	15.2	18346		18346	1	10000	1	18346	977	302
260	A09	11	4	Acoustic Foam	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A09	Ch. 3-4	2	435	1702	1702	1	13.5	8.4	13.5	8.4	2464	10158	10158	2	10000	1	10158	427	346
261	A09	11	4	Acoustic Foam	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A09	Ch. 5-6	3	445	1343	1343	1	13	9.1	13	9.1	2772	6601	6601	2	4027	0	6601	537	311
262	A09	11	4	Acoustic Foam	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A09	Ch. 7-8	4	442	1487	1487	1	16.3	9.7	16.3	9.7	2215	6162	6162	2	3673	0	6162	457	292
263	A09	11	4	Acoustic Foam	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A09	Ch. 9-10	5	451	1473	1473	1	12.2	13	13	13	2017	6596	6596	2	3548	0	6596	501	244
264	A09	11	4	Acoustic Foam	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	0	Spliced LSC	A09	Ch. 11-12	6	363	1349	1349	1	15.6	22.3	22.3	22.3	2088	6488	6488	2	9886	0	6488	355	321
217	A02	8	4	Acoustic Foam	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0	Spliced LSC	A02	Ch. 1-2	1	206	1938	1938	1	19	9.3	19	9.3	529	9217	9217	2	4217	0	9217	1122	198
218	A02	8	4	Acoustic Foam	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0	Spliced LSC	A02	Ch. 3-4	2	125	1032	1032	1	17.8	14.2	17.8	14.2	121	8904	8904	2	3936	0	8904	661	263
219	A02	8	4	Acoustic Foam	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0	Spliced LSC	A02	Ch. 5-6	3	214	1000	1000	1	18	15.3	18	15.3	498	7978	7978	2	3890	0	7978	724	231
220	A02	8	4	Acoustic Foam	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0	Spliced LSC	A02	Ch. 7-8	4	334	1580	1580	1	13.9	11.1	13.9	11.1	899	7338	7338	2	3631	0	7338	724	140
221	A02	8	4	Acoustic Foam	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0	Spliced LSC	A02	Ch. 9-10	5	246	1411	1411	1	20.2	10.9	20.2	10.9	871	5774	5774	2	4266	0	5774	234	156
222	A02	8	4	Acoustic Foam	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	0	Spliced LSC	A02	Ch. 11-12	6	197	1069	1069	1	16.4	14.6	16.4	14.6	351	5433	5433	2	3126	0	5433	759	158

Shock Response Spectrum Envelope Plot Points

c	Test No	Panel No	Group	Goal	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Aluminum LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accels	0 Degree	Material	Orientation	Plate Torque	Accel Torque	Accel Washer	Mfg Date	Accel Config	Notes	Backer Plate	Test	Output Name	Station	F1	F2	F3	F4	F5	SRS1	SRS2	SRS3	SRS4	SRS5	F3 prime	F4 prime	SRS3 prime	SRS4 prime	No of Notches
1	P1	P1	0	Pathfinder	8/10/2012	0	9	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P1	Ch. 1-2	1	100	3569			10000	95	17525			17525	3569	3569	17525	17525	1
2	P1	P1	0	Pathfinder	8/10/2012	0	21	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P1	Ch. 3-4	2	100	1829			10000	71	11295			11295	1829	1829	11295	11295	1
3	P1	P1	0	Pathfinder	8/10/2012	0	33	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P1	Ch. 5-6	3	100	2235			10000	77	12561			12561	2235	2235	12561	12561	1
4	P1	P1	0	Pathfinder	8/10/2012	0	45	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P1	Ch. 7-8	4	100	3956			10000	128	10377			10377	3956	3956	10377	10377	1
5	P1	P1	0	Pathfinder	8/10/2012	0	57	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P1	Ch. 9-10	5	100	2948			10000	133	11293			11293	2948	2948	11293	11293	1
6	P1	P1	0	Pathfinder	8/10/2012	0	69	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P1	Ch. 11-12	6	100	282	826	1972	10000	48	923	923	13285	13285	826	1972	923	13285	3
7	P2	P1	0	Pathfinder	8/16/2012	1	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P2	Ch. 1-2	1	100	2205			10000	113	15170			15170	2205	2205	15170	15170	1
8	P2	P1	0	Pathfinder	8/16/2012	1	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P2	Ch. 3-4	2	100	3837			10000	151	14814			14814	3837	3837	14814	14814	1
9	P2	P1	0	Pathfinder	8/16/2012	1	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P2	Ch. 5-6	3	100	2247			10000	114	13014			13014	2247	2247	13014	13014	1
10	P2	P1	0	Pathfinder	8/16/2012	1	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P2	Ch. 7-8	4	100	4232			10000	142	15470			15470	4232	4232	15470	15470	1
11	P2	P1	0	Pathfinder	8/16/2012	1	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P2	Ch. 9-10	5	100	2923			10000	164	14643			14643	2923	2923	14643	14643	1
12	P2	P1	0	Pathfinder	8/16/2012	1	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	5052 Aluminum	Aluminum								P2	Ch. 11-12	6	100	278	523	4148	10000	70	1351	1351	18641	18641	523	4148	1351	18641	3
13	P3	P3	0	Pathfinder	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply								P3	Ch. 1-2	1	100	1265			10000	80	9605			9605	1265	1265	9605	9605	1
14	P3	P3	0	Pathfinder	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply								P3	Ch. 3-4	2	100	2802			10000	226	15179			15179	2802	2802	15179	15179	1
15	P3	P3	0	Pathfinder	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply								P3	Ch. 5-6	3	100	238	554	2145	10000	85	738	738	8231	8231	554	2145	738	8231	3
16	P3	P3	0	Pathfinder	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply								P3	Ch. 7-8	4	100	216	717	1570	10000	56	1148	1148	8496	8496	717	1570	1148	8496	3
17	P3	P3	0	Pathfinder	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply								P3	Ch. 9-10	5	100	210	410	1695	10000	63	486	486	11554	11554	410	1695	486	11554	3
18	P3	P3	0	Pathfinder	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/R913	((+45°/-45° (2X); 0° (2x); +45°/-45° (2X); 90° (2x)) (X 3.2); 38 ply								P3	Ch. 11-12	6	100	374	1110	1651	10000	56	1816	1816	8579	8579	1110	1651	1816	8579	3
19	P4	P4	0	Pathfinder	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply								P4	Ch. 1-2	1	100	2869			10000	489	13601			13601	2869	2869	13601	13601	1
20	P4	P4	0	Pathfinder	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply								P4	Ch. 3-4	2	100	940			10000	79	10268			10268	940	940	10268	10268	1
21	P4	P4	0	Pathfinder	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply								P4	Ch. 5-6	3	100	773	2736	3474	10000	183	5137	5137	10480	10480	2736	3474	5137	10480	3
22	P4	P4	0	Pathfinder	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply								P4	Ch. 7-8	4	100	791	2486	3350	10000	304	4016	4016	7299	7299	2486	3350	4016	7299	3
23	P4	P4	0	Pathfinder	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply								P4	Ch. 9-10	5	100	358	3038	3368	10000	157	5245	5245	7107	7107	3038	3368	5245	7107	3
24	P4	P4	0	Pathfinder	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 0°; 38 ply								P4	Ch. 11-12	6	100	356	2907	3191	10000	186	4602	4602	6856	6856	2907	3191	4602	6856	3
25	P5	P5	0	Pathfinder	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply								P5	Ch. 1-2	1	100	1676			10000	113	12478			12478	1676	1676	12478	12478	1
26	P5	P5	0	Pathfinder	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply								P5	Ch. 3-4	2	100	2252			10000	146	15120			15120	2252	2252	15120	15120	1
27	P5	P5	0	Pathfinder	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply								P5	Ch. 5-6	3	100	1641			10000	126	8685			8685	1641	1641	8685	8685	1
28	P5	P5	0	Pathfinder	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply								P5	Ch. 7-8	4	100	1574			10000	133	8786			8786	1574	1574	8786	8786	1
29	P5	P5	0	Pathfinder	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply								P5	Ch. 9-10	5	100	376	582	1278	10000	72	1175	1175	10497	10497	582	1278	1175	10497	3
30	P5	P5	0	Pathfinder	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/R913	All plies 90°; 38 ply								P5	Ch. 11-12	6	100	700	1942	2593	10000	54	4099	4099	9672	9672	1942	2593	4099	9672	3
31	1	1	1	Monolithic	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0	11/28/2012	1b		1	1	Ch. 1-2	1	100	2644			10000	388	13982			13982	2644	2644	13982	13982	1
32	1	1	1	Monolithic	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0	11/28/2012	1b		1	1	Ch. 3-4	2	100	2587			10000	552	12754			12754	2587	2587	12754	12754	1
33	1	1	1	Monolithic	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0	11/28/2012	1b		1	1	Ch. 5-6	3	100	2519			10000	493	11777			11777	2519	2519	11777	11777	1
34	1	1	1	Monolithic	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0	11/28/2012	1b		1	1	Ch. 7-8	4	100	1952			10000	501	10551			10551	1952	1952	10551	10551	1
35	1	1	1	Monolithic	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0	11/28/2012	1b		1	1	Ch. 9-10	5	100	1989			10000	516	11626			11626	1989	1989	11626	11626	1
36	1	1	1	Monolithic	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0	11/28/2012	1b		1	1	Ch. 11-12	6	100	377	1346	1980	10000	94	3684	3684	12599	12599	1346	1980	3684	12599	3
43	2	2	1	Monolithic	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	55	35	0	11/28/2012	1b		1	2	Ch. 1-2	1	100	1994			10000	122	14368			14368	1994	1994	14368	14368	1
44	2	2	1	Monolithic	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	55	35	0	11/28/2012	1b		1	2	Ch. 3-4	2	100	2440			10000	203	11514			11514	2440	2440	11514	11514	1
45	2	2	1	Monolithic	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	55	35	0	11/28/2012	1b		1	2	Ch. 5-6	3	100	2051			10000	76	12570			12570	2051	2051	12570	12570	1
46	2	2	1	Monolithic	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	55	35	0	11/28/2012	1b		1	2	Ch. 7-8	4	100	2492			10000	173	11525			11525	2492	2492	11525	11525	1
47	2	2	1	Monolithic	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	55	35	0	11/28/2012	1b		1	2	Ch. 9-10	5	100	3307			10000	214	12773			12773	3307	3307	12773	12773	1
48	2	2	1	Monolithic	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply	55	35	0	11/28/2012	1b		1	2	Ch. 11-12	6	100	308	951	1876	10000	52	1190	1190	12181	12181	951	1876	1190	12181	3
61	4	4	1	Monolithic	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0	12/17/2012	1b		1	4	Ch. 1-2	1	100	2594			10000	161	11005			11005	2594	2594	11005	11005	1

62	4	4	1	Monolithic	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0	12/17/2012	1b		1	4	Ch. 3-4	2	100	1406			10000	126	8270			8270	1406	1406	8270	8270	1
63	4	4	1	Monolithic	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0	12/17/2012	1b		1	4	Ch. 5-6	3	100	2022			10000	78	8448			8448	2022	2022	8448	8448	1
64	4	4	1	Monolithic	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0	12/17/2012	1b		1	4	Ch. 7-8	4	100	337	720	2239	10000	75	986	986	9696	9696	720	2239	986	9696	3
65	4	4	1	Monolithic	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0	12/17/2012	1b		1	4	Ch. 9-10	5	100	266	345	3655	10000	48	655	655	9607	9607	345	3655	655	9607	3
66	4	4	1	Monolithic	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0	12/17/2012	1b		1	4	Ch. 11-12	6	100	3039			10000	175	9069			9069	3039	3039	9069	9069	1
49	3	3	1	Monolithic	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 1-2	1	100	1756			10000	123	11499			11499	1756	1756	11499	11499	1
50	3	3	1	Monolithic	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 3-4	2	100	1899			10000	210	8646			8646	1899	1899	8646	8646	1
51	3	3	1	Monolithic	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 5-6	3	100	1832			10000	149	9003			9003	1832	1832	9003	9003	1
52	3	3	1	Monolithic	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 7-8	4	100	340	693	1466	10000	81	1401	1401	8228	8228	693	1466	1401	8228	3
53	3	3	1	Monolithic	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 9-10	5	100	349	565	1643	10000	69	1138	1138	7945	7945	565	1643	1138	7945	3
54	3	3	1	Monolithic	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0	12/13/2012	1b	A number of debonded accels	1	3	Ch. 11-12	6	100	555	1571	2487	10000	70	2709	2709	9363	9363	1571	2487	2709	9363	3
67	5	5	1	Monolithic	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 1-2	1	100	2631			10000	244	13539			13539	2631	2631	13539	13539	1
68	5	5	1	Monolithic	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 3-4	2	100	3351			10000	264	16746			16746	3351	3351	16746	16746	1
69	5	5	1	Monolithic	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 5-6	3	100	3209			10000	190	16265			16265	3209	3209	16265	16265	1
70	5	5	1	Monolithic	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 7-8	4	100	2767			10000	155	13872			13872	2767	2767	13872	13872	1
71	5	5	1	Monolithic	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 9-10	5	100	3087			10000	205	15586			15586	3087	3087	15586	15586	1
72	5	5	1	Monolithic	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0	12/20/2012	1b		1	5	Ch. 11-12	6	100	457	1177	2952	10000	64	2586	2586	17671	17671	1177	2952	2586	17671	3
73	6	6	1	Monolithic	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 1-2	1	100	2560			10000	376	18254			18254	2560	2560	18254	18254	1
74	6	6	1	Monolithic	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 3-4	2	100	2016			10000	282	15930			15930	2016	2016	15930	15930	1
75	6	6	1	Monolithic	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 5-6	3	100	1372			10000	417	11264			11264	1372	1372	11264	11264	1
76	6	6	1	Monolithic	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 7-8	4	100	1696			10000	510	10721			10721	1696	1696	10721	10721	1
77	6	6	1	Monolithic	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 9-10	5	100	1885			10000	752	13675			13675	1885	1885	13675	13675	1
78	6	6	1	Monolithic	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	Composite, IM7/TC350	0-Deg; 18 ply	55	35	0		1b		0	6	Ch. 11-12	6	100	311	1263	2031	10000	88	3413	3413	13618	13618	1263	2031	3413	13618	3
79	7	7	1	Monolithic	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 1-2	1	100	2500			10000	384	20354			20354	2500	2500	20354	20354	1
80	7	7	1	Monolithic	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 3-4	2	100	1825			10000	399	15695			15695	1825	1825	15695	15695	1
81	7	7	1	Monolithic	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 5-6	3	100	1089			10000	352	11437			11437	1089	1089	11437	11437	1
82	7	7	1	Monolithic	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 7-8	4	100	1651			10000	261	10996			10996	1651	1651	10996	10996	1
83	7	7	1	Monolithic	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 9-10	5	100	2354			10000	563	13602			13602	2354	2354	13602	13602	1
84	7	7	1	Monolithic	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90°; 18 ply	55	35	0		2		0	7	Ch. 11-12	6	100	302	1027	2303	10000	145	2943	2943	16139	16139	1027	2303	2943	16139	3
85	8	8	1	Monolithic	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 1-2	1	100	2759			10000	64	15759			15759	2759	2759	15759	15759	1
86	8	8	1	Monolithic	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 3-4	2	100	1495			10000	123	14657			14657	1495	1495	14657	14657	1
87	8	8	1	Monolithic	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 5-6	3	100	1476			10000	19	11130			11130	1476	1476	11130	11130	1
88	8	8	1	Monolithic	5/16/2013	0	45	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 7-8	4	100	2056			10000	87	9468			9468	2056	2056	9468	9468	1
89	8	8	1	Monolithic	5/16/2013	0	57	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 9-10	5	100	2142			10000	62	10158			10158	2142	2142	10158	10158	1
90	8	8	1	Monolithic	5/16/2013	0	69	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply	55	35	0		3		0	8	Ch. 11-12	6	100	2208			10000	73	10309			10309	2208	2208	10309	10309	1
97	9	9	1	Monolithic	5/17/2013	0	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 1-2	1	100	1707			10000	108	9877			9877	1707	1707	9877	9877	1
98	9	9	1	Monolithic	5/17/2013	0	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 3-4	2	100	1252			10000	109	9279			9279	1252	1252	9279	9279	1
99	9	9	1	Monolithic	5/17/2013	0	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 5-6	3	100	945			10000	47	10512			10512	945	945	10512	10512	1

100	9	9	1	Monolithic	5/17/2013	0	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 7-8	4	100	1874			10000	170	10884			10884	1874	1874	10884	10884	1
101	9	9	1	Monolithic	5/17/2013	0	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 9-10	5	100	1917			10000	123	9542			9542	1917	1917	9542	9542	1
102	9	9	1	Monolithic	5/17/2013	0	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply	55	35	0		2		0	9	Ch. 11-12	6	100	653	1520	2495	10000	58	2648	2648	13631	13631	1520	2495	2648	13631	3
109	10	10	1	Monolithic	5/29/2013	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 1-2	1	100	3060			10000	166	22897			22897	3060	3060	22897	22897	1
110	10	10	1	Monolithic	5/29/2013	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 3-4	2	100	2288			10000	176	18794			18794	2288	2288	18794	18794	1
111	10	10	1	Monolithic	5/29/2013	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 5-6	3	100	2644			10000	197	18405			18405	2644	2644	18405	18405	1
112	10	10	1	Monolithic	5/29/2013	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 7-8	4	100	1613			10000	83	12351			12351	1613	1613	12351	12351	1
113	10	10	1	Monolithic	5/29/2013	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 9-10	5	100	2007			10000	171	11920			11920	2007	2007	11920	11920	1
114	10	10	1	Monolithic	5/29/2013	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply	55	35	0		3	A number of debonded accels	0	10	Ch. 11-12	6	100	516	1103	2395	10000	47	2430	2430	14080	14080	1103	2395	2430	14080	3
115	11	11	2	Sandwich	5/31/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 1-2	1	100	2458			10000	86	17035			17035	2458	2458	17035	17035	1
116	11	11	2	Sandwich	5/31/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 3-4	2	100	2587			10000	184	11602			11602	2587	2587	11602	11602	1
117	11	11	2	Sandwich	5/31/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 5-6	3	100	295	840	2061	10000	73	1067	1067	10434	10434	840	2061	1067	10434	3
118	11	11	2	Sandwich	5/31/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 7-8	4	100	326	658	3128	10000	69	1021	1021	8908	8908	658	3128	1021	8908	3
119	11	11	2	Sandwich	5/31/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 9-10	5	100	307	737	3210	10000	75	1461	1461	8097	8097	737	3210	1461	8097	3
120	11	11	2	Sandwich	5/31/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1		2		0	11	Ch. 11-12	6	100	219	845	1778	10000	49	700	700	8439	8439	845	1778	700	8439	3
121	12	14	2	Sandwich	6/28/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1					12	Ch. 1-2	1	100	2957			10000	185	14557			14557	2957	2957	14557	14557	1
122	12	14	2	Sandwich	6/28/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1					12	Ch. 3-4	2	100	311	550	1719	10000	89	1219	1219	9624	9624	550	1719	1219	9624	3
123	12	14	2	Sandwich	6/28/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1					12	Ch. 5-6	3	100	245	628	1701	10000	102	1423	1423	8259	8259	628	1701	1423	8259	3
124	12	14	2	Sandwich	6/28/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1					12	Ch. 7-8	4	100	278	957	1930	10000	72	1964	1964	6863	6863	957	1930	1964	6863	3
125	12	14	2	Sandwich	6/28/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1					12	Ch. 9-10	5	100	287	564	1940	10000	95	1051	1051	8240	8240	564	1940	1051	8240	3
126	12	14	2	Sandwich	6/28/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces	20	25	1					12	Ch. 11-12	6	100	214	567	1533	10000	47	624	624	7624	7624	567	1533	624	7624	3
127	13	13	2	Sandwich	7/16/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								13	Ch. 1-2	1	100	4158			10000	109	11810			11810	4158	4158	11810	11810	1
128	13	13	2	Sandwich	7/16/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								13	Ch. 3-4	2	100	360	864	2016	10000	36	1389	1389	7534	7534	864	2016	1389	7534	3
129	13	13	2	Sandwich	7/16/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								13	Ch. 5-6	3	100	307	1057	2103	10000	43	1479	1479	6283	6283	1057	2103	1479	6283	3
130	13	13	2	Sandwich	7/16/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								13	Ch. 7-8	4	100	296	955	2369	10000	36	1283	1283	4464	4464	955	2369	1283	4464	3
131	13	13	2	Sandwich	7/16/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								13	Ch. 9-10	5	100	348	713	1910	10000	52	1000	1000	5078	5078	713	1910	1000	5078	3
132	13	13	2	Sandwich	7/16/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								13	Ch. 11-12	6	100	230	520	1636	10000	21	397	397	5637	5637	520	1636	397	5637	3
133	14	12	2	Sandwich	7/17/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					3		0	14	Ch. 1-2	1	100	2923			10000	359	13588			13588	2923	2923	13588	13588	1
134	14	12	2	Sandwich	7/17/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					3		0	14	Ch. 3-4	2	100	1198			10000	130	11460			11460	1198	1198	11460	11460	1
135	14	12	2	Sandwich	7/17/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					3		0	14	Ch. 5-6	3	100	308	740	2714	10000	84	1781	1781	13169	13169	740	2714	1781	13169	3
136	14	12	2	Sandwich	7/17/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					3		0	14	Ch. 7-8	4	100	340	752	2281	10000	91	1285	1285	8454	8454	752	2281	1285	8454	3
137	14	12	2	Sandwich	7/17/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					3		0	14	Ch. 9-10	5	100	249	742	2145	10000	105	1499	1499	9768	9768	742	2145	1499	9768	3

138	14	12	2	Sandwich	7/17/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					3		0	14	Ch. 11-12	6	100	211	883	1799	10000	109	1575	1575	11453	11453	883	1799	1575	11453	3
139	15	16	2	Sandwich	7/18/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		15	Ch. 1-2	1	100	3771			10000	387	16318			16318	3771	3771	16318	16318	1
140	15	16	2	Sandwich	7/18/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		15	Ch. 3-4	2	100	2650			10000	308	11694			11694	2650	2650	11694	11694	1
141	15	16	2	Sandwich	7/18/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		15	Ch. 5-6	3	100	296	681	2145	10000	72	1540	1540	10038	10038	681	2145	1540	10038	3
142	15	16	2	Sandwich	7/18/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		15	Ch. 7-8	4	100	385	800	2577	10000	63	1567	1567	8181	8181	800	2577	1567	8181	3
143	15	16	2	Sandwich	7/18/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		15	Ch. 9-10	5	100	263	673	2494	10000	84	1375	1375	8493	8493	673	2494	1375	8493	3
144	15	16	2	Sandwich	7/18/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		15	Ch. 11-12	6	100	208	825	1735	10000	104	1362	1362	9479	9479	825	1735	1362	9479	3
145	16	18	2	Sandwich	7/23/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								16	Ch. 1-2	1	100	2026			10000	110	14050			14050	2026	2026	14050	14050	1
146	16	18	2	Sandwich	7/23/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								16	Ch. 3-4	2	100	312	625	1690	10000	123	1427	1427	10589	10589	625	1690	1427	10589	3
147	16	18	2	Sandwich	7/23/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								16	Ch. 5-6	3	100	277	856	1704	10000	100	1996	1996	9001	9001	856	1704	1996	9001	3
148	16	18	2	Sandwich	7/23/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								16	Ch. 7-8	4	100	278	904	1858	10000	71	1875	1875	7201	7201	904	1858	1875	7201	3
149	16	18	2	Sandwich	7/23/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								16	Ch. 9-10	5	100	298	675	1911	10000	120	1205	1205	9232	9232	675	1911	1205	9232	3
150	16	18	2	Sandwich	7/23/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								16	Ch. 11-12	6	100	225	571	1593	10000	45	655	655	9354	9354	571	1593	655	9354	3
151	17	15	2	Sandwich	8/9/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								17	Ch. 1-2	1	100	3152			10000	107	14466			14466	3152	3152	14466	14466	1
152	17	15	2	Sandwich	8/9/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								17	Ch. 3-4	2	100	1653			10000	156	11093			11093	1653	1653	11093	11093	1
153	17	15	2	Sandwich	8/9/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								17	Ch. 5-6	3	100	336	1251	2324	10000	58	2197	2197	8921	8921	1251	2324	2197	8921	3
154	17	15	2	Sandwich	8/9/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								17	Ch. 7-8	4	100	362	1019	3379	10000	57	1705	1705	9639	9639	1019	3379	1705	9639	3
155	17	15	2	Sandwich	8/9/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								17	Ch. 9-10	5	100	263	743	2809	10000	48	1255	1255	9565	9565	743	2809	1255	9565	3
156	17	15	2	Sandwich	8/9/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								17	Ch. 11-12	6	100	214	836	1934	10000	52	991	991	8747	8747	836	1934	991	8747	3
157	18	17	2	Sandwich	8/19/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		18	Ch. 1-2	1	100	2447			10000	59	10395			10395	2447	2447	10395	10395	1
158	18	17	2	Sandwich	8/19/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		18	Ch. 3-4	2	100	471	894	2331	10000	36	1331	1331	6624	6624	894	2331	1331	6624	3
159	18	17	2	Sandwich	8/19/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		18	Ch. 5-6	3	100	292	1022	2282	10000	32	1201	1201	5766	5766	1022	2282	1201	5766	3
160	18	17	2	Sandwich	8/19/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		18	Ch. 7-8	4	100	292	931	2169	10000	32	990	990	4782	4782	931	2169	990	4782	3
161	18	17	2	Sandwich	8/19/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		18	Ch. 9-10	5	100	405	1079	1924	10000	33	1169	1169	5308	5308	1079	1924	1169	5308	3
162	18	17	2	Sandwich	8/19/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		18	Ch. 11-12	6	100	224	523	1701	10000	28	315	315	4303	4303	523	1701	315	4303	3
163	19	19	3	Sever Plate	10/31/2013	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								19	Ch. 1-2	1	100	607	2186	3281	10000	47	2621	2621	10742	10742	2186	3281	2621	10742	3
164	19	19	3	Sever Plate	10/31/2013	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								19	Ch. 3-4	2	100	715	2131	3250	10000	68	2112	2112	8435	8435	2131	3250	2112	8435	3
165	19	19	3	Sever Plate	10/31/2013	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								19	Ch. 5-6	3	100	631	2160	3408	10000	27	1926	1926	7950	7950	2160	3408	1926	7950	3
166	19	19	3	Sever Plate	10/31/2013	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								19	Ch. 7-8	4	100	641	1249	3440	10000	94	1321	1321	7160	7160	1249	3440	1321	7160	3

167	19	19	3	Sever Plate	10/31/2013	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								19	Ch. 9-10	5	100	551	2168	3184	10000	68	1523	1523	6428	6428	2168	3184	1523	6428	3
168	19	19	3	Sever Plate	10/31/2013	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								19	Ch. 11-12	6	100	420	713	3606	10000	27	691	691	6138	6138	713	3606	691	6138	3
169	20	20	3	Sever Plate	11/19/2013	0	9	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								20	Ch. 1-2	1	100	576	1312	6320	10000	46	3202	3202	32442	32442	1312	6320	3202	32442	3
170	20	20	3	Sever Plate	11/19/2013	0	21	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								20	Ch. 3-4	2	100	489	1210	3656	10000	155	2247	2247	17874	17874	1210	3656	2247	17874	3
171	20	20	3	Sever Plate	11/19/2013	0	33	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								20	Ch. 5-6	3	100	571	1211	3286	10000	69	1555	1555	14719	14719	1211	3286	1555	14719	3
172	20	20	3	Sever Plate	11/19/2013	0	45	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								20	Ch. 7-8	4	100	549	1448	2920	10000	62	1794	1794	8905	8905	1448	2920	1794	8905	3
173	20	20	3	Sever Plate	11/19/2013	0	57	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								20	Ch. 9-10	5	100	472	1978	2640	10000	102	2576	2576	7233	7233	1978	2640	2576	7233	3
174	20	20	3	Sever Plate	11/19/2013	0	69	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								20	Ch. 11-12	6	100	266	842	1597	10000	27	772	772	6167	6167	842	1597	772	6167	3
181	22	22	3	Sever Plate	11/25/2013	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		22	Ch. 1-2	1	100	331	687	1998	10000	17	513	513	10707	10707	687	1998	513	10707	3
182	22	22	3	Sever Plate	11/25/2013	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		22	Ch. 3-4	2	100	392	877	2253	10000	29	830	830	8661	8661	877	2253	830	8661	3
183	22	22	3	Sever Plate	11/25/2013	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		22	Ch. 5-6	3	100	308	972	2093	10000	23	776	776	6811	6811	972	2093	776	6811	3
184	22	22	3	Sever Plate	11/25/2013	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		22	Ch. 7-8	4	100	313	973	1844	10000	26	626	626	5007	5007	973	1844	626	5007	3
185	22	22	3	Sever Plate	11/25/2013	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		22	Ch. 9-10	5	100	443	1102	1865	10000	34	756	756	4924	4924	1102	1865	756	4924	3
186	22	22	3	Sever Plate	11/25/2013	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						0		22	Ch. 11-12	6	100	253	795	1956	10000	18	447	447	5014	5014	795	1956	447	5014	3
175	21	21	3	Sever Plate	12/4/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								21	Ch. 1-2	1	100	2878			10000	112	15533			15533	2878	2878	15533	15533	1
176	21	21	3	Sever Plate	12/4/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								21	Ch. 3-4	2	100	1761			10000	134	10938			10938	1761	1761	10938	10938	1
177	21	21	3	Sever Plate	12/4/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								21	Ch. 5-6	3	100	361	1107	2225	10000	55	2236	2236	10912	10912	1107	2225	2236	10912	3
178	21	21	3	Sever Plate	12/4/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								21	Ch. 7-8	4	100	346	794	2234	10000	58	1105	1105	7992	7992	794	2234	1105	7992	3
179	21	21	3	Sever Plate	12/4/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								21	Ch. 9-10	5	100	481	910	2393	10000	97	1471	1471	8322	8322	910	2393	1471	8322	3
180	21	21	3	Sever Plate	12/4/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								21	Ch. 11-12	6	100	222	733	1948	10000	43	842	842	10013	10013	733	1948	842	10013	3
55	4R	4	1	Monolithic	12/12/2013	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply				12/17/2012				4r	Ch. 1-2	1	100	3141			10000	202	12188			12188	3141	3141	12188	12188	1
56	4R	4	1	Monolithic	12/12/2013	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply				12/17/2012				4r	Ch. 3-4	2	100	2708			10000	171	12597			12597	2708	2708	12597	12597	1
57	4R	4	1	Monolithic	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply				12/17/2012				4r	Ch. 5-6	3	100	1576			10000	59	12111			12111	1576	1576	12111	12111	1
58	4R	4	1	Monolithic	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply				12/17/2012				4r	Ch. 7-8	4	100	2768			10000	85	11301			11301	2768	2768	11301	11301	1
59	4R	4	1	Monolithic	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply				12/17/2012				4r	Ch. 9-10	5	100	2623			10000	213	11004			11004	2623	2623	11004	11004	1
60	4R	4	1	Monolithic	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply				12/17/2012				4r	Ch. 11-12	6	100	246	497	2685	10000	33	637	637	15187	15187	497	2685	637	15187	3
37	2R	2	1	Monolithic	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2r	Ch. 1-2	1	100	680	2764	3355	10000	185	5837	5837	14498	14498	2764	3355	5837	14498	3
38	2R	2	1	Monolithic	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2r	Ch. 3-4	2	100	2284			10000	153	15403			15403	2284	2284	15403	15403	1
39	2R	2	1	Monolithic	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2r	Ch. 5-6	3	100	1912			10000	129	13801			13801	1912	1912	13801	13801	1
40	2R	2	1	Monolithic	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2r	Ch. 7-8	4	100	1229	2321	3203	10000	328	5701	5701	14176	14176	2321	3203	5701	14176	3
41	2R	2	1	Monolithic	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2r	Ch. 9-10	5	100	266	399	3568	10000	146	1842	1842	14959	14959	399	3568	1842	14959	3
42	2R	2	1	Monolithic	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 18 ply				11/28/2012				2r	Ch. 11-12	6	100	303	1019	2231	10000	84	1949	1949	15046	15046	1019	2231	1949	15046	3
205	26	26	3	Sever Plate	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 1-2	1	100	311	1625	3300	10000	35	1663	1663	7476	7476	1625	3300	1663	7476	3

206	26	26	3	Sever Plate	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 3-4	2	100	445	819	2872	10000	70	1256	1256	6938	6938	819	2872	1256	6938	3
207	26	26	3	Sever Plate	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 5-6	3	100	336	785	3511	10000	62	1377	1377	6832	6832	785	3511	1377	6832	3
208	26	26	3	Sever Plate	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 7-8	4	100	536	1088	2982	10000	90	1508	1508	5689	5689	1088	2982	1508	5689	3
209	26	26	3	Sever Plate	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 9-10	5	100	400	670	3109	10000	69	1103	1103	4816	4816	670	3109	1103	4816	3
210	26	26	3	Sever Plate	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces								26	Ch. 11-12	6	100	265	832	1846	10000	27	855	855	5860	5860	832	1846	855	5860	3
103	10R	10	1	Monolithic	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10r	Ch. 1-2	1	100	843			10000	40	9328			9328	843	843	9328	9328	1
104	10R	10	1	Monolithic	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10r	Ch. 3-4	2	100	744			10000	50	9291			9291	744	744	9291	9291	1
105	10R	10	1	Monolithic	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10r	Ch. 5-6	3	100	1016			10000	63	12158			12158	1016	1016	12158	12158	1
106	10R	10	1	Monolithic	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10r	Ch. 7-8	4	100	1712			10000	164	9621			9621	1712	1712	9621	9621	1
107	10R	10	1	Monolithic	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10r	Ch. 9-10	5	100	682			10000	59	10153			10153	682	682	10153	10153	1
108	10R	10	1	Monolithic	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 38 ply								10r	Ch. 11-12	6	100	803			10000	16	16717			16717	803	803	16717	16717	1
91	9R	9	1	Monolithic	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9r	Ch. 1-2	1	100	2143			10000	297	10921			10921	2143	2143	10921	10921	1
92	9R	9	1	Monolithic	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9r	Ch. 3-4	2	100	2080			10000	185	15926			15926	2080	2080	15926	15926	1
93	9R	9	1	Monolithic	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9r	Ch. 5-6	3	100	1241			10000	94	13369			13369	1241	1241	13369	13369	1
94	9R	9	1	Monolithic	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9r	Ch. 7-8	4	100	2114			10000	152	10124			10124	2114	2114	10124	10124	1
95	9R	9	1	Monolithic	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9r	Ch. 9-10	5	100	1111			10000	92	12541			12541	1111	1111	12541	12541	1
96	9R	9	1	Monolithic	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 54 ply								9r	Ch. 11-12	6	100	1055			10000	65	13214			13214	1055	1055	13214	13214	1
277	28	28	3	Sever Plate	1/24/2014	0	9	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 1-2	1	100	857	1971	3806	10000	19	3428	3428	10071	10071	1971	3806	3428	10071	3
278	28	28	3	Sever Plate	1/24/2014	0	21	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 3-4	2	100	328	1328	2852	10000	52	2258	2258	10130	10130	1328	2852	2258	10130	3
279	28	28	3	Sever Plate	1/24/2014	0	33	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 5-6	3	100	313	1278	3394	10000	33	1978	1978	9601	9601	1278	3394	1978	9601	3
280	28	28	3	Sever Plate	1/24/2014	0	45	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 7-8	4	100	681	1105	2712	10000	55	1738	1738	7848	7848	1105	2712	1738	7848	3
281	28	28	3	Sever Plate	1/24/2014	0	57	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 9-10	5	100	299	755	2848	10000	51	1157	1157	6619	6619	755	2848	1157	6619	3
282	28	28	3	Sever Plate	1/24/2014	0	69	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Some delamination of the 32 quasi-isotropic tape ply LSC panel.		28	Ch. 11-12	6	100	285	684	2241	10000	22	606	606	8164	8164	684	2241	606	8164	3
187	23	23	3	Sever Plate	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 1-2	1	100	451	780	3876	10000	21	776	776	13582	13582	780	3876	776	13582	3
188	23	23	3	Sever Plate	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 3-4	2	100	416	952	2854	10000	81	626	626	11327	11327	952	2854	626	11327	3

189	23	23	3	Sever Plate	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 5-6	3	100	339	1073	2969	10000	50	862	862	8538	8538	1073	2969	862	8538	3
190	23	23	3	Sever Plate	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 7-8	4	100	361	818	3376	10000	62	803	803	8628	8628	818	3376	803	8628	3
191	23	23	3	Sever Plate	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 9-10	5	100	276	1103	3700	10000	39	986	986	7586	7586	1103	3700	986	7586	3
192	23	23	3	Sever Plate	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						Note on this test: Prior to conducting the last 10 gpf test a modification to the standoff shims is going to be introduced to increase the shelf width by 5 to 8 mils to ensure the legs of the LSC are firmly seated on the standoff shim.		23	Ch. 11-12	6	100	291	901	2555	10000	47	660	660	9024	9024	901	2555	660	9024	3
193	24	24	3	Sever Plate	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								24	Ch. 1-2	1	100	2449			10000	206	10702			10702	2449	2449	10702	10702	1
194	24	24	3	Sever Plate	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								24	Ch. 3-4	2	100	1318			10000	85	10450			10450	1318	1318	10450	10450	1
195	24	24	3	Sever Plate	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								24	Ch. 5-6	3	100	339	807	2007	10000	59	1566	1566	8200	8200	807	2007	1566	8200	3
196	24	24	3	Sever Plate	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								24	Ch. 7-8	4	100	338	904	2005	10000	98	1531	1531	7486	7486	904	2005	1531	7486	3
197	24	24	3	Sever Plate	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								24	Ch. 9-10	5	100	304	832	2205	10000	78	1565	1565	8366	8366	832	2205	1565	8366	3
198	24	24	3	Sever Plate	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								24	Ch. 11-12	6	100	225	868	1588	10000	115	1131	1131	7389	7389	868	1588	1131	7389	3
199	25	25	3	Sever Plate	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								25	Ch. 1-2	1	100	505	1639	3370	10000	20	1801	1801	6571	6571	1639	3370	1801	6571	3
200	25	25	3	Sever Plate	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								25	Ch. 3-4	2	100	261	905	2108	10000	31	1208	1208	4937	4937	905	2108	1208	4937	3
201	25	25	3	Sever Plate	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								25	Ch. 5-6	3	100	328	898	3100	10000	28	1201	1201	4457	4457	898	3100	1201	4457	3
202	25	25	3	Sever Plate	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								25	Ch. 7-8	4	100	281	947	2810	10000	37	1038	1038	3925	3925	947	2810	1038	3925	3
203	25	25	3	Sever Plate	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								25	Ch. 9-10	5	100	247	986	2249	10000	31	1037	1037	3365	3365	986	2249	1037	3365	3
204	25	25	3	Sever Plate	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces								25	Ch. 11-12	6	100	294	944	1761	10000	30	672	672	4136	4136	944	1761	672	4136	3
271	27	27	3	Sever Plate	6/11/2014	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						0		27	Ch. 1-2	1	100	3991	0	0	10000	220	13604	0	0	13604	3991	3991	13604	13604	3
272	27	27	3	Sever Plate	6/11/2014	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						0		27	Ch. 3-4	2	100	322	433	1764	10000	35	556	556	7871	7871	433	1764	556	7871	3
273	27	27	3	Sever Plate	6/11/2014	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						0		27	Ch. 5-6	3	100	293	444	1324	10000	21	464	464	7293	7293	444	1324	464	7293	3
274	27	27	3	Sever Plate	6/11/2014	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						0		27	Ch. 7-8	4	100	302	487	908	10000	66	511	511	6432	6432	487	908	511	6432	3
275	27	27	3	Sever Plate	6/11/2014	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						0		27	Ch. 9-10	5	100	498	798	1186	10000	31	1354	1354	4675	4675	798	1186	1354	4675	3
276	27	27	3	Sever Plate	6/11/2014	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces						0		27	Ch. 11-12	6	100	292	605	1278	10000	17	384	384	5309	5309	605	1278	384	5309	3
235	A05	17	4	Acoustic Foam	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces					0			A05	Ch. 1-2	1	100	5423			10000	383	28490			28490	5423	5423	28490	28490	1
236	A05	17	4	Acoustic Foam	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/-45°/+45°/90°; 8 ply both faces					0			A05	Ch. 3-4	2	100	249	650	2095	10000	125	1630	1630	19259	19259	650	2095	1630	19259	3

237	A05	17	4	Acoustic Foam	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 5-6	3	100	304	704	2208	10000	88	1726	1726	14063	14063	704	2208	1726	14063	3
238	A05	17	4	Acoustic Foam	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 7-8	4	100	349	694	1906	10000	102	1123	1123	11892	11892	694	1906	1123	11892	3
239	A05	17	4	Acoustic Foam	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 9-10	5	100	272	764	1673	10000	113	1581	1581	10860	10860	764	1673	1581	10860	3
240	A05	17	4	Acoustic Foam	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A05	Ch. 11-12	6	100	208	891	1418	10000	147	1669	1669	9224	9224	891	1418	1669	9224	3
265	A10	12	4	Acoustic Foam	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 1-2	1	100	3244			10000	538	15731			15731	3244	3244	15731	15731	1
266	A10	12	4	Acoustic Foam	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 3-4	2	100	2816			10000	227	17244			17244	2816	2816	17244	17244	1
267	A10	12	4	Acoustic Foam	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 5-6	3	100	1898			10000	271	12947			12947	1898	1898	12947	12947	1
268	A10	12	4	Acoustic Foam	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 7-8	4	100	2490			10000	168	12470			12470	2490	2490	12470	12470	1
269	A10	12	4	Acoustic Foam	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 9-10	5	100	1827			10000	133	12688			12688	1827	1827	12688	12688	1
270	A10	12	4	Acoustic Foam	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A10	Ch. 11-12	6	100	913	1433	2106	10000	91	2647	2647	10113	10113	1433	2106	2647	10113	3
211	A01	8	4	Acoustic Foam	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 1-2	1	100	1823			10000	124	8801			8801	1823	1823	8801	8801	1
212	A01	8	4	Acoustic Foam	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 3-4	2	100	412	846	1837	10000	65	2437	2437	12045	12045	846	1837	2437	12045	3
213	A01	8	4	Acoustic Foam	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 5-6	3	100	306	973	1816	10000	54	2320	2320	9947	9947	973	1816	2320	9947	3
214	A01	8	4	Acoustic Foam	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 7-8	4	100	302	975	1931	10000	59	1907	1907	7338	7338	975	1931	1907	7338	3
215	A01	8	4	Acoustic Foam	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 9-10	5	100	273	645	1910	10000	59	1256	1256	8401	8401	645	1910	1256	8401	3
216	A01	8	4	Acoustic Foam	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0			A01	Ch. 11-12	6	100	214	505	1621	10000	39	488	488	8715	8715	505	1621	488	8715	3
247	A07	18	4	Acoustic Foam	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A07	Ch. 1-2	1	100	771			10000	118	12017			12017	771	771	12017	12017	1
248	A07	18	4	Acoustic Foam	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A07	Ch. 3-4	2	100	2786			10000	392	12631			12631	2786	2786	12631	12631	1
249	A07	18	4	Acoustic Foam	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A07	Ch. 5-6	3	100	319	571	1418	10000	122	2125	2125	12103	12103	571	1418	2125	12103	3
250	A07	18	4	Acoustic Foam	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A07	Ch. 7-8	4	100	197	274	1713	10000	144	912	912	9114	9114	274	1713	912	9114	3
251	A07	18	4	Acoustic Foam	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A07	Ch. 9-10	5	100	162	316	1341	10000	153	627	627	9785	9785	316	1341	627	9785	3
252	A07	18	4	Acoustic Foam	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A07	Ch. 11-12	6	100	260	822	1494	10000	99	1315	1315	10422	10422	822	1494	1315	10422	3
253	A08	11	4	Acoustic Foam	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A08	Ch. 1-2	1	100	314	571	1670	10000	66	1829	1829	12610	12610	571	1670	1829	12610	3
254	A08	11	4	Acoustic Foam	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A08	Ch. 3-4	2	100	491	670	1387	10000	137	2510	2510	8942	8942	670	1387	2510	8942	3
255	A08	11	4	Acoustic Foam	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A08	Ch. 5-6	3	100	582	896	1518	10000	69	3181	3181	7914	7914	896	1518	3181	7914	3
256	A08	11	4	Acoustic Foam	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A08	Ch. 7-8	4	100	516	1115	1498	10000	38	4023	4023	6133	6133	1115	1498	4023	6133	3
257	A08	11	4	Acoustic Foam	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A08	Ch. 9-10	5	100	404	656	945	10000	52	2061	2061	7057	7057	656	945	2061	7057	3
258	A08	11	4	Acoustic Foam	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0			A08	Ch. 11-12	6	100	404	623	1084	10000	103	1946	1946	7789	7789	623	1084	1946	7789	3
223	A03	P1	4	Acoustic Foam	8/27/2014	2	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A03	Ch. 1-2	1	100	2064			10000	366	9408			9408	2064	2064	9408	9408	1
224	A03	P1	4	Acoustic Foam	8/27/2014	2	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A03	Ch. 3-4	2	100	2320			10000	216	10782			10782	2320	2320	10782	10782	1
225	A03	P1	4	Acoustic Foam	8/27/2014	2	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A03	Ch. 5-6	3	100	1962			10000	80	9279			9279	1962	1962	9279	9279	1
226	A03	P1	4	Acoustic Foam	8/27/2014	2	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A03	Ch. 7-8	4	100	2055			10000	135	8970			8970	2055	2055	8970	8970	1
227	A03	P1	4	Acoustic Foam	8/27/2014	2	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A03	Ch. 9-10	5	100	303	500	1132	10000	140	909	909	9392	9392	500	1132	909	9392	3
228	A03	P1	4	Acoustic Foam	8/27/2014	2	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A03	Ch. 11-12	6	100	312	652	1944	10000	63	1082	1082	12381	12381	652	1944	1082	12381	3
229	A04	P1	4	Acoustic Foam	9/2/2014	3	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A04	Ch. 1-2	1	100	411	838	1789	10000	50	2141	2141	12017	12017	838	1789	2141	12017	3
230	A04	P1	4	Acoustic Foam	9/2/2014	3	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A04	Ch. 3-4	2	100	493	870	1550	10000	56	2674	2674	10233	10233	870	1550	2674	10233	3
231	A04	P1	4	Acoustic Foam	9/2/2014	3	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A04	Ch. 5-6	3	100	538	858	1716	10000	53	2504	2504	8206	8206	858	1716	2504	8206	3

232	A04	P1	4	Acoustic Foam	9/2/2014	3	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A04	Ch. 7-8	4	100	498	937	1611	10000	29	2030	2030	6336	6336	937	1611	2030	6336	3
233	A04	P1	4	Acoustic Foam	9/2/2014	3	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A04	Ch. 9-10	5	100	428	1082	1888	10000	45	2388	2388	5420	5420	1082	1888	2388	5420	3
234	A04	P1	4	Acoustic Foam	9/2/2014	3	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	5052 Aluminum	Aluminum					0	Spliced LSC		A04	Ch. 11-12	6	100	638	1010	1562	10000	51	2625	2625	5809	5809	1010	1562	2625	5809	3
241	A06	17	4	Acoustic Foam	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A06	Ch. 1-2	1	100	518			10000	161	9028			9028	518	518	9028	9028	1
242	A06	17	4	Acoustic Foam	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A06	Ch. 3-4	2	100	414			10000	130	10150			10150	414	414	10150	10150	1
243	A06	17	4	Acoustic Foam	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A06	Ch. 5-6	3	100	1376			10000	514	9472			9472	1376	1376	9472	9472	1
244	A06	17	4	Acoustic Foam	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A06	Ch. 7-8	4	100	1611			10000	448	10677			10677	1611	1611	10677	10677	1
245	A06	17	4	Acoustic Foam	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A06	Ch. 9-10	5	100	227	623	1250	10000	247	2165	2165	11652	11652	623	1250	2165	11652	3
246	A06	17	4	Acoustic Foam	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A06	Ch. 11-12	6	100	243	947	1525	10000	147	2444	2444	10981	10981	947	1525	2444	10981	3
259	A09	11	4	Acoustic Foam	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A09	Ch. 1-2	1	100	795			10000	98	18346			18346	795	795	18346	18346	1
260	A09	11	4	Acoustic Foam	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A09	Ch. 3-4	2	100	435	618	1702	10000	90	2464	2464	10158	10158	618	1702	2464	10158	3
261	A09	11	4	Acoustic Foam	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A09	Ch. 5-6	3	100	445	758	1343	10000	111	2772	2772	6601	6601	758	1343	2772	6601	3
262	A09	11	4	Acoustic Foam	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A09	Ch. 7-8	4	100	442	790	1487	10000	39	2215	2215	6162	6162	790	1487	2215	6162	3
263	A09	11	4	Acoustic Foam	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A09	Ch. 9-10	5	100	451	851	1473	10000	95	2017	2017	6596	6596	851	1473	2017	6596	3
264	A09	11	4	Acoustic Foam	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	Composite, IM7/TC350	90°/+45°/-45°/0°/0°/ -45°/+45°/90°; 8 ply both faces					0	Spliced LSC		A09	Ch. 11-12	6	100	363	994	1349	10000	74	2088	2088	6488	6488	994	1349	2088	6488	3
217	A02	8	4	Acoustic Foam	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0	Spliced LSC		A02	Ch. 1-2	1	100	206	304	1938	10000	54	529	529	9217	9217	304	1938	529	9217	3
218	A02	8	4	Acoustic Foam	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0	Spliced LSC		A02	Ch. 3-4	2	100	125	166	1032	10000	62	121	121	8904	8904	166	1032	121	8904	3
219	A02	8	4	Acoustic Foam	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0	Spliced LSC		A02	Ch. 5-6	3	100	214	337	1000	10000	51	498	498	7978	7978	337	1000	498	7978	3
220	A02	8	4	Acoustic Foam	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0	Spliced LSC		A02	Ch. 7-8	4	100	334	504	1580	10000	55	899	899	7338	7338	504	1580	899	7338	3
221	A02	8	4	Acoustic Foam	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0	Spliced LSC		A02	Ch. 9-10	5	100	246	497	1411	10000	42	871	871	5774	5774	497	1411	871	5774	3
222	A02	8	4	Acoustic Foam	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	Composite, IM7/TC350	+45°/-45°; 0° (2x); +45°/-45°; 90° (2x); 27 ply					0	Spliced LSC		A02	Ch. 11-12	6	100	197	346	1069	10000	55	351	351	5433	5433	346	1069	351	5433	3

Data Other Prelim Params

564 *Maximum observation number (no. of observations)*

=[Time Min G]

						time																time	time	time	Hz	g^2^s/Hz	
c	Test No	Panel No	Group	Goal	Test Date	No of Prev Tests on Panel	Distance from LSC	Sensor Vert Posn T-B	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Aluminum LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accels	0 Degree	Test	Output Name	Channel	Time Min G	Abs Time Min G	Time Max G	Temporal Energy	Max ESD Freq	Max ESD Displace
1	P1	P1	0	Pathfinder	8/10/2012	0	9	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 1	1	-6160	6160	4647	1.50E+09	3463	7.69
2	P1	P1	0	Pathfinder	8/10/2012	0	9	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 2	2	-5163	5163	6149	1.43E+09	1610	7.97
3	P1	P1	0	Pathfinder	8/10/2012	0	21	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 3	3	-3205	3205	3238	1.29E+09	1756	7.6
4	P1	P1	0	Pathfinder	8/10/2012	0	21	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 4	4	-5198	5198	4911	1.58E+09	1756	11.95
5	P1	P1	0	Pathfinder	8/10/2012	0	33	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 5	5	-3617	3617	4237	1.52E+09	1463	6.97
6	P1	P1	0	Pathfinder	8/10/2012	0	33	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 6	6	-3551	3551	3220	1.39E+09	3220	7.26
7	P1	P1	0	Pathfinder	8/10/2012	0	45	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 7	7	-4786	4786	4627	1.63E+09	3024	7.02
8	P1	P1	0	Pathfinder	8/10/2012	0	45	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 8	8	-3371	3371	3665	1.16E+09	11073	5.16
9	P1	P1	0	Pathfinder	8/10/2012	0	57	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 9	9	-3357	3357	4135	1.34E+09	3220	5.93
10	P1	P1	0	Pathfinder	8/10/2012	0	57	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 10	10	-3593	3593	3871	1.39E+09	1756	6.71
11	P1	P1	0	Pathfinder	8/10/2012	0	69	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 11	11	-5155	5155	3420	1.52E+09	1756	9.94
12	P1	P1	0	Pathfinder	8/10/2012	0	69	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P1	NEST01 - Ch 12	12	-3681	3681	3916	1.32E+09	1463	6.39
13	P2	P1	0	Pathfinder	8/16/2012	1	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 1	1	-5380	5380	5003	2.10E+09	3707	15.68
14	P2	P1	0	Pathfinder	8/16/2012	1	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 2	2	-7321	7321	4875	1.86E+09	927	7.09
15	P2	P1	0	Pathfinder	8/16/2012	1	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 3	3	-4333	4333	4481	1.97E+09	6293	8.49
16	P2	P1	0	Pathfinder	8/16/2012	1	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 4	4	-6015	6015	5915	2.18E+09	3902	9.15
17	P2	P1	0	Pathfinder	8/16/2012	1	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 5	5	-5349	5349	4326	2.09E+09	6293	11.67
18	P2	P1	0	Pathfinder	8/16/2012	1	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 6	6	-5449	5449	4368	2.17E+09	3659	12.15
19	P2	P1	0	Pathfinder	8/16/2012	1	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 7	7	-5048	5048	5549	2.36E+09	4390	17.14
20	P2	P1	0	Pathfinder	8/16/2012	1	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 8	8	-4840	4840	5055	2.30E+09	4390	14.33
21	P2	P1	0	Pathfinder	8/16/2012	1	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 9	9	-5584	5584	4959	2.18E+09	4195	14.1
22	P2	P1	0	Pathfinder	8/16/2012	1	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 10	10	-4480	4480	5295	2.02E+09	4390	9.77
23	P2	P1	0	Pathfinder	8/16/2012	1	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 11	11	-5429	5429	5476	2.33E+09	3902	15.62
24	P2	P1	0	Pathfinder	8/16/2012	1	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	P2	NEST02_1048 - Ch 12	12	-6723	6723	6643	2.62E+09	5951	14.45
25	P3	P3	0	Pathfinder	9/10/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 1	1	-3945	3945	2668	7.17E+08	1317	7.39
26	P3	P3	0	Pathfinder	9/10/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 2	2	-3642	3642	2369	5.61E+08	1073	6.07
27	P3	P3	0	Pathfinder	9/10/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 3	3	-3097	3097	3934	7.40E+08	2634	4.88
28	P3	P3	0	Pathfinder	9/10/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 4	4	-3420	3420	4563	8.90E+08	3073	5.07
29	P3	P3	0	Pathfinder	9/10/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 5	5	-2869	2869	3522	7.32E+08	2927	6.1
30	P3	P3	0	Pathfinder	9/10/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 6	6	-2422	2422	1998	5.67E+08	1805	6.18
31	P3	P3	0	Pathfinder	9/10/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 7	7	-2973	2973	2403	7.79E+08	1268	20.83
32	P3	P3	0	Pathfinder	9/10/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 8	8	-3230	3230	2341	6.28E+08	1268	10.12
33	P3	P3	0	Pathfinder	9/10/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 9	9	-2277	2277	2210	5.07E+08	1073	3.58
34	P3	P3	0	Pathfinder	9/10/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 10	10	-2312	2312	2760	6.14E+08	1415	7.46
35	P3	P3	0	Pathfinder	9/10/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 11	11	-2335	2335	2262	4.31E+08	1317	3.07
36	P3	P3	0	Pathfinder	9/10/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	P3	NEST03 1048 - Ch 12	12	-2569	2569	2213	4.75E+08	1268	5.18
37	P4	P4	0	Pathfinder	11/30/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 1	1	-4077	4077	4735	8.62E+08	537	14.83
38	P4	P4	0	Pathfinder	11/30/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 2	2	-6068	6068	5025	1.07E+09	1415	9.93
39	P4	P4	0	Pathfinder	11/30/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 3	3	-2222	2222	3080	5.85E+08	537	11.24
40	P4	P4	0	Pathfinder	11/30/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 4	4	-14	14	1	1.56E+04	8049	0
41	P4	P4	0	Pathfinder	11/30/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 5	5	-2061	2061	2203	6.60E+08	537	10.08
42	P4	P4	0	Pathfinder	11/30/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 6	6	-2976	2976	2352	6.86E+08	537	10.27
43	P4	P4	0	Pathfinder	11/30/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 7	7	-1636	1636	1988	5.62E+08	537	7.46
44	P4	P4	0	Pathfinder	11/30/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 8	8	-1568	1568	1840	4.90E+08	537	9.5
45	P4	P4	0	Pathfinder	11/30/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 9	9	-1570	1570	1205	5.63E+08	1220	10.8
46	P4	P4	0	Pathfinder	11/30/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 10	10	-1513	1513	1501	4.81E+08	537	25.89
47	P4	P4	0	Pathfinder	11/30/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 11	11	-1417	1417	1556	6.00E+08	537	33.79
48	P4	P4	0	Pathfinder	11/30/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P4	NEST04_1048 - Ch 12	12	-1376	1376	1490	3.22E+08	537	11.31
49	P5	P5	0	Pathfinder	12/5/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 1	1	-3837	3837	4136	7.58E+08	1561	7.43
50	P5	P5	0	Pathfinder	12/5/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 2	2	-4546	4546	3998	9.80E+08	1610	12.88
51	P5	P5	0	Pathfinder	12/5/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 3	3	-3578	3578	2765	7.85E+08	2000	11.87
52	P5	P5	0	Pathfinder	12/5/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 4	4	-3808	3808	4088	9.98E+08	2000	14.21
53	P5	P5	0	Pathfinder	12/5/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 5	5	-3698	3698	1898	7.43E+08	2000	16.37
54	P5	P5	0	Pathfinder	12/5/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 6	6	-3012	3012	2320	9.07E+08	1610	17.36
55	P5	P5	0	Pathfinder	12/5/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 7	7	-2545	2545	2000	8.14E+08	1805	15.26
56	P5	P5	0	Pathfinder	12/5/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 8	8	-2684	2684	2369	8.07E+08	1805	14.58
57	P5	P5	0	Pathfinder	12/5/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 9	9	-2567	2567	3028	7.12E+08	927	12.75
58	P5	P5	0	Pathfinder	12/5/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 10	10	-2458	2458	2916	8.69E+08	1610	19.83
59	P5	P5	0	Pathfinder	12/5/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 11	11	-2926	2926	2377	5.78E+08	780	12.15
60	P5	P5	0	Pathfinder	12/5/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	P5	NEST05_1048 - Ch 12	12	-2489	2489	2678	6.23E+08	780	10.54
61	1	1	1	Monolithic	1/23/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 1	1	-5189	5189	5405	1.47E+09	1073	20.61
62	1	1	1	Monolithic	1/23/2013	0	9	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 2	2	-5378	5378	4227	1.22E+09	1073	19.65
63	1	1	1	Monolithic	1/23/2013	0	21	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 3	3	-4560	4560	3825	1.28E+09	634	11.8
64	1	1	1	Monolithic	1/23/2013	0	21	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 4	4	-3650	3650	4483	1.17E+09	634	11.08
65	1	1	1	Monolithic	1/23/2013	0	33	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 5	5	-3454	3454	2540	1.04E+09	3317	21.46
66	1	1	1	Monolithic	1/23/2013	0	33	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 6	6	-3120	3120	3560	1.02E+09	1073	16.74
67	1	1	1	Monolithic	1/23/2013	0	45	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 7	7	-2637	2637	3224	1.23E+09	1220	13.58

68	1	1	1	Monolithic	1/23/2013	0	45	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 8	8	-3742	3742	3611	9.75E+08	1659	12.33
69	1	1	1	Monolithic	1/23/2013	0	57	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 9	9	-3473	3473	2662	1.16E+09	3317	20.17
70	1	1	1	Monolithic	1/23/2013	0	57	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 10	10	-3005	3005	2301	8.42E+08	1073	17.09
71	1	1	1	Monolithic	1/23/2013	0	69	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 11	11	-3330	3330	3290	1.03E+09	1854	13.71
72	1	1	1	Monolithic	1/23/2013	0	69	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	1	NEST1-01_1048 - Ch 12	12	-2579	2579	2202	7.83E+08	732	12.64
73	2	2	1	Monolithic	1/29/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 1	1	-4662	4662	4632	1.12E+09	3366	9.2
74	2	2	1	Monolithic	1/29/2013	0	9	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 2	2	-6908	6908	4174	9.27E+08	1073	8.97
75	2	2	1	Monolithic	1/29/2013	0	21	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 3	3	-3369	3369	4553	1.02E+09	3366	12.69
76	2	2	1	Monolithic	1/29/2013	0	21	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 4	4	-4208	4208	4179	8.83E+08	1756	7.08
77	2	2	1	Monolithic	1/29/2013	0	33	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 5	5	-3547	3547	3451	1.28E+09	2927	12.79
78	2	2	1	Monolithic	1/29/2013	0	33	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 6	6	-3038	3038	3379	8.15E+08	3366	8.73
79	2	2	1	Monolithic	1/29/2013	0	45	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 7	7	-3377	3377	2815	9.13E+08	1366	8.7
80	2	2	1	Monolithic	1/29/2013	0	45	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 8	8	-2697	2697	2643	8.01E+08	1756	8.58
81	2	2	1	Monolithic	1/29/2013	0	57	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 9	9	-3376	3376	2932	8.46E+08	3805	13.37
82	2	2	1	Monolithic	1/29/2013	0	57	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 10	10	-2547	2547	3022	7.03E+08	3805	7.93
83	2	2	1	Monolithic	1/29/2013	0	69	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 11	11	-2851	2851	3076	6.37E+08	1951	7.27
84	2	2	1	Monolithic	1/29/2013	0	69	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2	NEST1-02_1048 - Ch 12	12	-2805	2805	2002	6.28E+08	3805	6.44
109	4	4	1	Monolithic	2/5/2013	0	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 1	1	-4228	4228	3964	9.19E+08	3659	6.14
110	4	4	1	Monolithic	2/5/2013	0	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 2	2	-5341	5341	3780	7.12E+08	537	3.58
111	4	4	1	Monolithic	2/5/2013	0	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 3	3	-3269	3269	4114	7.79E+08	3659	6.75
112	4	4	1	Monolithic	2/5/2013	0	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 4	4	-3269	3269	3971	7.04E+08	1463	4.81
113	4	4	1	Monolithic	2/5/2013	0	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 5	5	-3166	3166	2727	6.93E+08	1756	6.43
114	4	4	1	Monolithic	2/5/2013	0	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 6	6	-3356	3356	2580	5.70E+08	1171	3.53
115	4	4	1	Monolithic	2/5/2013	0	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 7	7	-2400	2400	3335	6.15E+08	1512	6.67
116	4	4	1	Monolithic	2/5/2013	0	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 8	8	-2850	2850	1887	4.41E+08	1171	5.29
117	4	4	1	Monolithic	2/5/2013	0	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 9	9	-2567	2567	2591	5.20E+08	1366	4.16
118	4	4	1	Monolithic	2/5/2013	0	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 10	10	-2068	2068	2521	4.32E+08	1317	4.82
119	4	4	1	Monolithic	2/5/2013	0	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 11	11	-2123	2123	2652	4.01E+08	2195	2.65
120	4	4	1	Monolithic	2/5/2013	0	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4	NEST1-04_1048 - Ch 12	12	-2657	2657	1737	3.86E+08	439	2.71
97	3	3	1	Monolithic	2/8/2013	0	9	T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 1	1	-5650	5650	4787	1.02E+09	1805	7.18
98	3	3	1	Monolithic	2/8/2013	0	9	B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 2	2	-5609	5609	4274	8.90E+08	2195	5.35
99	3	3	1	Monolithic	2/8/2013	0	21	T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 3	3	-4086	4086	3692	8.30E+08	1951	8.69
100	3	3	1	Monolithic	2/8/2013	0	21	B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 4	4	-3267	3267	4763	7.22E+08	1659	6.29
101	3	3	1	Monolithic	2/8/2013	0	33	T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 5	5	-3259	3259	2849	7.44E+08	1220	12.7
102	3	3	1	Monolithic	2/8/2013	0	33	B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 6	6	-4771	4771	2214	6.33E+08	1171	5.33
103	3	3	1	Monolithic	2/8/2013	0	45	T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 7	7	-2284	2284	3825	7.76E+08	1805	10.19
104	3	3	1	Monolithic	2/8/2013	0	45	B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 8	8	-2311	2311	2725	5.00E+08	1756	7.3
105	3	3	1	Monolithic	2/8/2013	0	57	T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 9	9	-2734	2734	3218	6.12E+08	1659	9.92
106	3	3	1	Monolithic	2/8/2013	0	57	B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 10	10	-2833	2833	2876	5.78E+08	1463	9.46
107	3	3	1	Monolithic	2/8/2013	0	69	T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 11	11	-2439	2439	2471	5.19E+08	732	8.21
108	3	3	1	Monolithic	2/8/2013	0	69	B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	Y	1	3	NEST1-03_1048 - Ch 12	12	-2638	2638	2276	4.37E+08	732	5.47
133	5	5	1	Monolithic	2/22/2013	0	9	T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 1	1	-4943	4943	4621	1.38E+09	5756	8.65
134	5	5	1	Monolithic	2/22/2013	0	9	B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 2	2	-6495	6495	5551	1.07E+09	1122	19.6
135	5	5	1	Monolithic	2/22/2013	0	21	T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 3	3	-3593	3593	4888	1.71E+09	3268	19.18
136	5	5	1	Monolithic	2/22/2013	0	21	B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 4	4	-6056	6056	5040	1.36E+09	2780	6.83
137	5	5	1	Monolithic	2/22/2013	0	33	T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 5	5	-4966	4966	4063	1.82E+09	2585	16
138	5	5	1	Monolithic	2/22/2013	0	33	B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 6	6	-5534	5534	4091	1.34E+09	2780	12.34
139	5	5	1	Monolithic	2/22/2013	0	45	T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 7	7	-4211	4211	4428	1.46E+09	2585	16.74
140	5	5	1	Monolithic	2/22/2013	0	45	B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 8	8	-3615	3615	3625	1.58E+09	2585	17.01
141	5	5	1	Monolithic	2/22/2013	0	57	T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 9	9	-4198	4198	3944	1.44E+09	2585	13.27
142	5	5	1	Monolithic	2/22/2013	0	57	B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 10	10	-2816	2816	3789	1.18E+09	2585	17.03
143	5	5	1	Monolithic	2/22/2013	0	69	T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 11	11	-3298	3298	4745	1.35E+09	2634	13.28
144	5	5	1	Monolithic	2/22/2013	0	69	B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	5	NEST1-05_1048 - Ch 12	12	-3706	3706	3978	1.14E+09	2341	15.26
145	6	6	1	Monolithic	5/8/2013	0	9	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 1	1	-7215	7215	3877	1.95E+09	1073	29.29
146	6	6	1	Monolithic	5/8/2013	0	9	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 2	2	-6960	6960	4214	1.92E+09	1073	43.64
147	6	6	1	Monolithic	5/8/2013	0	21	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 3	3	-5202	5202	3735	1.59E+09	976	32.95
148	6	6	1	Monolithic	5/8/2013	0	21	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 4	4	-3761	3761	4133	1.54E+09	976	36.2
149	6	6	1	Monolithic	5/8/2013	0	33	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 5	5	-2991	2991	3783	1.77E+09	1073	31.12
150	6	6	1	Monolithic	5/8/2013	0	33	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 6	6	-3667	3667	3823	1.44E+09	1073	37.71
151	6	6	1	Monolithic	5/8/2013	0	45	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 7	7	-3507	3507	3402	1.74E+09	1220	34.7
152	6	6	1	Monolithic	5/8/2013	0	45	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 8	8	-2790	2790	3312	1.46E+09	829	26.66
153	6	6	1	Monolithic	5/8/2013	0	57	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 9	9	-3269	3269	3169	1.73E+09	1073	42.83
154	6	6	1	Monolithic	5/8/2013	0	57	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 10	10	-3579	3579	3179	1.42E+09	1073	33.46
155	6	6	1	Monolithic	5/8/2013	0	69	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 11	11	-3276	3276	4184	1.34E+09	2244	20.7
156	6	6	1	Monolithic	5/8/2013	0	69	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		0	6	NEST1-06 - Ch 12	12	-2746	2746	4337	1.28E+09	2293	21.22
157	7	7	1	Monolithic	5/9/2013	0	9	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 1	1	-6799	6799	4764	1.76E+09	1073	21.16
158	7	7	1	Monolithic	5/9/2013	0	9	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 2	2	-7559	7559	5690	1.77E+09	1073	24.38
159	7	7	1	Monolithic	5/9/2013	0	21	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 3	3	-5258	5258	7438	2.06E+09	878	22.98
160	7	7	1	Monolithic	5/9/2013	0	21	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 4	4	-3526	3526	4830	1.37E+09	878	17.49
161	7	7	1	Monolithic	5/9/2013	0	33	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 5	5	-3262	3262	5551	1.80E+09	1415	21.67
162	7	7	1	Monolithic	5/9/2013	0	33	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 6	6	-4083	4083	4513	1.62E+09	976	14.82
163	7	7	1	Monolithic	5/9/2013	0	45	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 7	7	-3183	3183	4229	1.44E+09	1073	22.54
164	7	7	1	Monolithic	5/9/2013	0	45	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 8	8	-3333	3333	3509	1.46E+09	1073	21.16
165	7	7	1	Monolithic	5/9/2013	0	57	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 9	9	-3988	3988	3917	1.49E+09	537	17.26
166	7	7	1	Monolithic	5/9/2013	0	57	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 10	10	-2792	2792	3522	1.33E+09	1415	20.36
167	7	7	1	Monolithic	5/9/2013	0	69	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 11	11	-4540	4540	4428	1.32E+09	390	14.02
168	7	7	1	Monolithic	5/9/2013	0	69	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	7	NEST1-07 - Ch 12	12	-2467	2467	2755	1.11E+09	390	15.17
169	8	8	1	Monolithic	5/16/2013	0	9	T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 1	1	-6655	6655	5504	1.07E+09	1854	7.57
170	8	8	1	Monolithic	5/16/2013	0	9	B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 2	2	-5372	5372	3973	7.60E+08	1854	4.74
171	8	8	1	Monolithic	5/16/2013	0	21	T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 3	3	-4004	4004	3262	9.18E+08	1854	8.81
172	8	8	1	Monolithic	5/16/2013	0	21	B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 4	4	-6717	6717	4605	8.92E+08	2000	6.45

173	8	8	1	Monolithic	5/16/2013	0	33	T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 5	5	-4715	4715	3848	9.34E+08	2000	16.68
174	8	8	1	Monolithic	5/16/2013	0	33	B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 6	6	-2585	2585	3122	6.68E+08	1366	7.18
175	8	8	1	Monolithic	5/16/2013	0	45	T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 7	7	-4005	4005	2986	8.46E+08	2049	15.32
176	8	8	1	Monolithic	5/16/2013	0	45	B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 8	8	-2336	2336	2432	5.51E+08	2000	6.69
177	8	8	1	Monolithic	5/16/2013	0	57	T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 9	9	-3004	3004	2654	7.58E+08	1951	8.74
178	8	8	1	Monolithic	5/16/2013	0	57	B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 10	10	-2769	2769	2607	5.38E+08	2244	5.33
179	8	8	1	Monolithic	5/16/2013	0	69	T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 11	11	-2439	2439	2945	5.57E+08	780	4.98
180	8	8	1	Monolithic	5/16/2013	0	69	B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	8	NEST1-08 - Ch 12	12	-2207	2207	2637	5.48E+08	2293	6.7
181	9	9	1	Monolithic	5/17/2013	0	9	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 1	1	-4135	4135	4899	1.06E+09	2049	11.28
182	9	9	1	Monolithic	5/17/2013	0	9	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 2	2	-5255	5255	6319	1.09E+09	1805	10.59
183	9	9	1	Monolithic	5/17/2013	0	21	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 3	3	-3755	3755	3839	1.08E+09	2000	15.25
184	9	9	1	Monolithic	5/17/2013	0	21	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 4	4	-4634	4634	3800	1.02E+09	2000	17.25
185	9	9	1	Monolithic	5/17/2013	0	33	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 5	5	-3949	3949	3904	1.23E+09	1902	21.81
186	9	9	1	Monolithic	5/17/2013	0	33	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 6	6	-4916	4916	2705	8.87E+08	1805	12.52
187	9	9	1	Monolithic	5/17/2013	0	45	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 7	7	-4617	4617	3754	1.12E+09	1805	19.08
188	9	9	1	Monolithic	5/17/2013	0	45	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 8	8	-2902	2902	3283	8.75E+08	1805	15.92
189	9	9	1	Monolithic	5/17/2013	0	57	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 9	9	-3205	3205	3578	7.88E+08	1854	10.22
190	9	9	1	Monolithic	5/17/2013	0	57	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 10	10	-2821	2821	2867	7.98E+08	1366	8.74
191	9	9	1	Monolithic	5/17/2013	0	69	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 11	11	-3414	3414	3282	8.24E+08	732	11.4
192	9	9	1	Monolithic	5/17/2013	0	69	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9	NEST1-09 - Ch 12	12	-2240	2240	2688	6.98E+08	732	9.66
205	10	10	1	Monolithic	5/29/2013	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 1	1	-8246	8246	5837	1.68E+09	4000	18.03
206	10	10	1	Monolithic	5/29/2013	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 2	2	-8688	8688	6179	1.70E+09	1415	22.91
207	10	10	1	Monolithic	5/29/2013	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 3	3	-4494	4494	5174	1.47E+09	1024	24.86
208	10	10	1	Monolithic	5/29/2013	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 4	4	-6865	6865	6394	1.65E+09	1122	10.15
209	10	10	1	Monolithic	5/29/2013	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 5	5	-4817	4817	3485	1.39E+09	1122	22.47
210	10	10	1	Monolithic	5/29/2013	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 6	6	-4848	4848	5793	1.55E+09	1122	15.11
211	10	10	1	Monolithic	5/29/2013	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 7	7	-3574	3574	3571	1.31E+09	1268	26.28
212	10	10	1	Monolithic	5/29/2013	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 8	8	-4584	4584	3935	1.35E+09	1268	23
213	10	10	1	Monolithic	5/29/2013	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 9	9	-3869	3869	3872	1.29E+09	2488	11.59
214	10	10	1	Monolithic	5/29/2013	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 10	10	-3239	3239	3339	1.04E+09	1024	13.81
215	10	10	1	Monolithic	5/29/2013	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 11	11	-3463	3463	3617	1.02E+09	2293	11.5
216	10	10	1	Monolithic	5/29/2013	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	Y	1	10	NEST1-10 - Ch 12	12	-4004	4004	3858	1.02E+09	2439	9.26
229	11	11	2	Sandwich	5/31/2013	0	9	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 1	1	-6463	6463	5676	1.05E+09	5024	7.18
230	11	11	2	Sandwich	5/31/2013	0	9	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 2	2	-4751	4751	5260	7.95E+08	3610	4.32
231	11	11	2	Sandwich	5/31/2013	0	21	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 3	3	-5014	5014	3809	9.18E+08	3561	6.03
232	11	11	2	Sandwich	5/31/2013	0	21	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 4	4	-3518	3518	4376	7.20E+08	3610	4.95
233	11	11	2	Sandwich	5/31/2013	0	33	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 5	5	-3441	3441	4431	7.10E+08	3805	8.58
234	11	11	2	Sandwich	5/31/2013	0	33	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 6	6	-3063	3063	3595	6.90E+08	3805	7.65
235	11	11	2	Sandwich	5/31/2013	0	45	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 7	7	-3790	3790	3071	6.39E+08	3805	8.8
236	11	11	2	Sandwich	5/31/2013	0	45	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 8	8	-3237	3237	2583	5.83E+08	3805	6.89
237	11	11	2	Sandwich	5/31/2013	0	57	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 9	9	-3684	3684	2612	5.78E+08	3610	5.04
238	11	11	2	Sandwich	5/31/2013	0	57	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 10	10	-2686	2686	2173	5.55E+08	439	4.28
239	11	11	2	Sandwich	5/31/2013	0	69	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 11	11	-2444	2444	3117	5.60E+08	4976	4.62
240	11	11	2	Sandwich	5/31/2013	0	69	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	11	NEST2-11_1048 - Ch 12	12	-2198	2198	2091	4.86E+08	1463	5.52
241	12	14	2	Sandwich	6/28/2013	0	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 1	1	-6886	6886	3504	7.46E+08	1220	9.81
242	12	14	2	Sandwich	6/28/2013	0	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 2	2	-6553	6553	3979	8.50E+08	2000	10.09
243	12	14	2	Sandwich	6/28/2013	0	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 3	3	-3868	3868	5466	7.38E+08	1854	10.21
244	12	14	2	Sandwich	6/28/2013	0	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 4	4	-2930	2930	5129	6.06E+08	1951	11.09
245	12	14	2	Sandwich	6/28/2013	0	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 5	5	-2611	2611	4255	5.14E+08	244	9.03
246	12	14	2	Sandwich	6/28/2013	0	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 6	6	-2369	2369	4971	5.05E+08	244	9.91
247	12	14	2	Sandwich	6/28/2013	0	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 7	7	-2390	2390	2391	3.90E+08	244	8.35
248	12	14	2	Sandwich	6/28/2013	0	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 8	8	-2219	2219	2191	3.75E+08	1951	8.66
249	12	14	2	Sandwich	6/28/2013	0	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 9	9	-3148	3148	1879	3.91E+08	1951	9.26
250	12	14	2	Sandwich	6/28/2013	0	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 10	10	-2654	2654	1520	2.47E+08	1854	4.3
251	12	14	2	Sandwich	6/28/2013	0	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 11	11	-2410	2410	2094	3.61E+08	1756	6.53
252	12	14	2	Sandwich	6/28/2013	0	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	12	NEST2-12_1048 - Ch 12	12	-2066	2066	2165	2.93E+08	1854	4.47
253	13	13	2	Sandwich	7/16/2013	0	9	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 1	1	-2727	2727	3160	3.27E+08	585	3.2
254	13	13	2	Sandwich	7/16/2013	0	9	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 2	2	-3696	3696	2993	4.23E+08	2049	3.11
255	13	13	2	Sandwich	7/16/2013	0	21	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 3	3	-2275	2275	3798	3.33E+08	1902	4.11
256	13	13	2	Sandwich	7/16/2013	0	21	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 4	4	-2856	2856	4428	2.82E+08	1951	3.99
257	13	13	2	Sandwich	7/16/2013	0	33	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 5	5	-1692	1692	2255	2.23E+08	1951	4.52
258	13	13	2	Sandwich	7/16/2013	0	33	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 6	6	-1475	1475	3482	2.07E+08	1951	2.71
259	13	13	2	Sandwich	7/16/2013	0	45	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 7	7	-2086	2086	1501	1.68E+08	1854	1.88
260	13	13	2	Sandwich	7/16/2013	0	45	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 8	8	-2091	2091	1510	1.61E+08	1951	3.58
261	13	13	2	Sandwich	7/16/2013	0	57	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 9	9	-2057	2057	1110	1.62E+08	1951	4.01
262	13	13	2	Sandwich	7/16/2013	0	57	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 10	10	-2142	2142	834	1.42E+08	390	2.83
263	13	13	2	Sandwich	7/16/2013	0	69	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 11	11	-1499	1499	1789	2.02E+08	1756	4.03
264	13	13	2	Sandwich	7/16/2013	0	69	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	13	NEST2-13_1048 - Ch 12	12	-1527	1527	1390	1.74E+08	1854	2.79
265	14	12	2	Sandwich	7/17/2013	0	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 1	1	-5086	5086	4686	8.86E+08	976	13.81
266	14	12	2	Sandwich	7/17/2013	0	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 2	2	-5088	5088	6030	1.02E+09	976	13.37
267	14	12	2	Sandwich	7/17/2013	0	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 3	3	-3421	3421	4696	8.57E+08	976	13.91
268	14	12	2	Sandwich	7/17/2013	0	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 4	4	-5016	5016	6555	9.42E+08	976	10.48
269	14	12	2	Sandwich	7/17/2013	0	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 5	5	-2826	2826	4722	8.25E+08	4683	12.22
270	14	12	2	Sandwich	7/17/2013	0	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 6	6	-2349	2349	5272	7.12E+08	976	6.39
271	14	12	2	Sandwich	7/17/2013	0	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 7	7	-3067	3067	2613	6.51E+08	4829	8.61

272	14	12	2	Sandwich	7/17/2013	0	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 8	8	-3051	3051	3407	5.20E+08	3561	8.02
273	14	12	2	Sandwich	7/17/2013	0	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 9	9	-3112	3112	2240	6.34E+08	3317	6.53
274	14	12	2	Sandwich	7/17/2013	0	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 10	10	-2848	2848	2377	6.45E+08	3561	11.34
275	14	12	2	Sandwich	7/17/2013	0	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 11	11	-2947	2947	2710	7.47E+08	1854	11.04
276	14	12	2	Sandwich	7/17/2013	0	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	14	NEST2-14_1048 - Ch 12	12	-3251	3251	2674	6.32E+08	195	9.42
277	15	16	2	Sandwich	7/18/2013	0	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 1	1	-5884	5884	5737	9.32E+08	976	11.97
278	15	16	2	Sandwich	7/18/2013	0	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 2	2	-6295	6295	6119	1.18E+09	976	10.8
279	15	16	2	Sandwich	7/18/2013	0	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 3	3	-4473	4473	4455	8.25E+08	976	10.45
280	15	16	2	Sandwich	7/18/2013	0	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 4	4	-2945	2945	6336	7.78E+08	976	8.72
281	15	16	2	Sandwich	7/18/2013	0	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 5	5	-3628	3628	4176	7.63E+08	3756	7.03
282	15	16	2	Sandwich	7/18/2013	0	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 6	6	-2638	2638	4998	6.50E+08	976	5.38
283	15	16	2	Sandwich	7/18/2013	0	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 7	7	-3137	3137	2752	5.44E+08	1805	4.65
284	15	16	2	Sandwich	7/18/2013	0	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 8	8	-2591	2591	3323	5.79E+08	3561	10.76
285	15	16	2	Sandwich	7/18/2013	0	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 9	9	-3123	3123	2512	5.64E+08	3268	7.46
286	15	16	2	Sandwich	7/18/2013	0	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 10	10	-2933	2933	2511	5.55E+08	3512	6.08
287	15	16	2	Sandwich	7/18/2013	0	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 11	11	-3248	3248	4272	7.48E+08	1805	16.31
288	15	16	2	Sandwich	7/18/2013	0	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	15	NEST2-15_1048 - Ch 12	12	-2948	2948	1592	4.83E+08	195	8.07
289	16	18	2	Sandwich	7/23/2013	0	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 1	1	-6597	6597	3145	8.42E+08	2000	12.48
290	16	18	2	Sandwich	7/23/2013	0	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 2	2	-6612	6612	3876	8.72E+08	2000	11.66
291	16	18	2	Sandwich	7/23/2013	0	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 3	3	-4633	4633	5288	8.92E+08	2000	13.84
292	16	18	2	Sandwich	7/23/2013	0	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 4	4	-3795	3795	5517	7.71E+08	2000	12.6
293	16	18	2	Sandwich	7/23/2013	0	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 5	5	-2877	2877	4288	6.38E+08	1902	16.38
294	16	18	2	Sandwich	7/23/2013	0	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 6	6	-2181	2181	4615	5.91E+08	1951	10.43
295	16	18	2	Sandwich	7/23/2013	0	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 7	7	-2787	2787	2284	4.67E+08	1951	8.6
296	16	18	2	Sandwich	7/23/2013	0	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 8	8	-2721	2721	1973	4.54E+08	1902	9.64
297	16	18	2	Sandwich	7/23/2013	0	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 9	9	-3310	3310	1919	4.78E+08	1854	9.99
298	16	18	2	Sandwich	7/23/2013	0	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 10	10	-2881	2881	1600	3.68E+08	1854	10.51
299	16	18	2	Sandwich	7/23/2013	0	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 11	11	-2449	2449	2950	5.03E+08	1659	9.72
300	16	18	2	Sandwich	7/23/2013	0	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	16	NEST2-16_1048 - Ch 12	12	-2482	2482	2348	4.72E+08	1854	10.2
301	17	15	2	Sandwich	8/9/2013	0	9	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 1	1	-3837	3837	4881	6.80E+08	976	5.65
302	17	15	2	Sandwich	8/9/2013	0	9	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 2	2	-5129	5129	5774	8.05E+08	976	6.16
303	17	15	2	Sandwich	8/9/2013	0	21	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 3	3	-3421	3421	4361	7.28E+08	3805	10.57
304	17	15	2	Sandwich	8/9/2013	0	21	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 4	4	-3491	3491	5692	6.87E+08	3805	11.07
305	17	15	2	Sandwich	8/9/2013	0	33	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 5	5	-2497	2497	4348	6.08E+08	3805	10.84
306	17	15	2	Sandwich	8/9/2013	0	33	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 6	6	-2242	2242	4535	6.36E+08	3805	14.71
307	17	15	2	Sandwich	8/9/2013	0	45	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 7	7	-2650	2650	3031	5.13E+08	3805	10.21
308	17	15	2	Sandwich	8/9/2013	0	45	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 8	8	-3122	3122	2546	4.77E+08	3805	8.15
309	17	15	2	Sandwich	8/9/2013	0	57	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 9	9	-2689	2689	2603	5.24E+08	3805	6.13
310	17	15	2	Sandwich	8/9/2013	0	57	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 10	10	-2355	2355	1747	4.29E+08	3561	5.32
311	17	15	2	Sandwich	8/9/2013	0	69	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 11	11	-3084	3084	3852	5.84E+08	1854	9.76
312	17	15	2	Sandwich	8/9/2013	0	69	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	17	NEST2-17_1048 - Ch 12	12	-2974	2974	2100	4.35E+08	1268	4.44
313	18	17	2	Sandwich	8/19/2013	0	9	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 1	1	-3173	3173	3579	4.04E+08	1951	2.52
314	18	17	2	Sandwich	8/19/2013	0	9	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 2	2	-3608	3608	2994	3.93E+08	2049	3.04
315	18	17	2	Sandwich	8/19/2013	0	21	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 3	3	-3049	3049	3029	2.44E+08	1902	2.72
316	18	17	2	Sandwich	8/19/2013	0	21	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 4	4	-3171	3171	3146	2.59E+08	1951	5.53
317	18	17	2	Sandwich	8/19/2013	0	33	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 5	5	-1932	1932	2374	1.93E+08	1951	5.93
318	18	17	2	Sandwich	8/19/2013	0	33	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 6	6	-1666	1666	3245	1.99E+08	244	1.92
319	18	17	2	Sandwich	8/19/2013	0	45	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 7	7	-1866	1866	1700	1.50E+08	1463	2.17
320	18	17	2	Sandwich	8/19/2013	0	45	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 8	8	-1467	1467	1418	1.60E+08	1951	3.71
321	18	17	2	Sandwich	8/19/2013	0	57	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 9	9	-1866	1866	1357	1.73E+08	1902	5.08
322	18	17	2	Sandwich	8/19/2013	0	57	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 10	10	-1545	1545	736	1.09E+08	1902	2.36
323	18	17	2	Sandwich	8/19/2013	0	69	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 11	11	-1537	1537	1284	1.29E+08	1902	2.49
324	18	17	2	Sandwich	8/19/2013	0	69	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	18	NEST2-18_1048 - Ch 12	12	-1281	1281	1141	1.33E+08	1902	4.55
325	19	19	3	Sever Plate	10/31/2013	0	9	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 1	1	-2987	2987	2929	4.01E+08	537	5.79
326	19	19	3	Sever Plate	10/31/2013	0	9	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 2	2	-3387	3387	3137	5.84E+08	3659	5.15
327	19	19	3	Sever Plate	10/31/2013	0	21	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 3	3	-1860	1860	2443	3.56E+08	537	4.03
328	19	19	3	Sever Plate	10/31/2013	0	21	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 4	4	-3056	3056	3373	4.04E+08	537	4.15
329	19	19	3	Sever Plate	10/31/2013	0	33	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 5	5	-2370	2370	2243	3.16E+08	3415	3.96
330	19	19	3	Sever Plate	10/31/2013	0	33	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 6	6	-1961	1961	2729	2.82E+08	3415	3.52
331	19	19	3	Sever Plate	10/31/2013	0	45	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 7	7	-1380	1380	1520	2.41E+08	3756	2.46
332	19	19	3	Sever Plate	10/31/2013	0	45	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 8	8	-1996	1996	2700	2.93E+08	3463	4.06
333	19	19	3	Sever Plate	10/31/2013	0	57	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 9	9	-1701	1701	1823	2.28E+08	537	4.7
334	19	19	3	Sever Plate	10/31/2013	0	57	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 10	10	-1906	1906	1627	2.60E+08	537	4.03
335	19	19	3	Sever Plate	10/31/2013	0	69	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 11	11	-1570	1570	1464	1.97E+08	4829	1.16
336	19	19	3	Sever Plate	10/31/2013	0	69	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	0		1	19	NEST3-19_1048 - Ch 12	12	-1732	1732	1237	1.93E+08	4049	1.74
337	20	20	3	Sever Plate	11/19/2013	0	9	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 1	1	-6746	6746	8903	1.33E+09	439	10.34
338	20	20	3	Sever Plate	11/19/2013	0	9	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 2	2	-7679	7679	9611	1.28E+09	439	7.5
339	20	20	3	Sever Plate	11/19/2013	0	21	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 3	3	-5374	5374	3898	6.14E+08	488	6.9
340	20	20	3	Sever Plate	11/19/2013	0	21	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 4	4	-4579	4579	5506	7.78E+08	488	8.23
341	20	20	3	Sever Plate	11/19/2013	0	33	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 5	5	-5214	5214	2153	4.69E+08	2878	5.99
342	20	20	3	Sever Plate	11/19/2013	0	33	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 6	6	-5167	5167	2602	3.98E+08	2537	4.15
343	20	20	3	Sever Plate	11/19/2013	0	45	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 7	7	-3131	3131	1955	3.92E+08	2780	5.13
344	20	20	3	Sever Plate	11/19/2013	0	45	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 8	8	-3006	3006	2002	2.76E+08	488	2.93
345	20	20	3	Sever Plate	11/19/2013	0	57	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 9	9	-2658	2658	2773	3.92E+08	439	11.31
346	20	20	3	Sever Plate	11/19/2013	0	57	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 10	10	-1920	1920	1815	3.05E+08	439	11.29

347	20	20	3	Sever Plate	11/19/2013	0	69	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 11	11	-1530	1530	2238	1.77E+08	3512	1.73
348	20	20	3	Sever Plate	11/19/2013	0	69	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	1		1	20	NEST3-20_Time1048 - Ch 12	12	-1130	1130	1574	1.31E+08	1024	1.59
361	22	22	3	Sever Plate	11/25/2013	0	9	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 1	1	-4099	4099	3964	5.39E+08	2098	5.49
362	22	22	3	Sever Plate	11/25/2013	0	9	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 2	2	-3129	3129	2759	2.90E+08	1902	2.96
363	22	22	3	Sever Plate	11/25/2013	0	21	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 3	3	-2076	2076	2538	3.05E+08	2195	4.86
364	22	22	3	Sever Plate	11/25/2013	0	21	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 4	4	-2885	2885	2715	2.80E+08	2195	3.43
365	22	22	3	Sever Plate	11/25/2013	0	33	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 5	5	-2023	2023	2061	2.01E+08	2195	4.48
366	22	22	3	Sever Plate	11/25/2013	0	33	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 6	6	-1532	1532	1844	1.81E+08	2244	2.59
367	22	22	3	Sever Plate	11/25/2013	0	45	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 7	7	-1236	1236	1653	1.45E+08	1854	4.19
368	22	22	3	Sever Plate	11/25/2013	0	45	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 8	8	-1121	1121	1450	1.39E+08	1854	3.01
369	22	22	3	Sever Plate	11/25/2013	0	57	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 9	9	-1178	1178	1212	1.15E+08	1854	3.82
370	22	22	3	Sever Plate	11/25/2013	0	57	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 10	10	-1276	1276	1309	1.19E+08	1854	4.55
371	22	22	3	Sever Plate	11/25/2013	0	69	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 11	11	-1136	1136	885	8.67E+07	1854	1.91
372	22	22	3	Sever Plate	11/25/2013	0	69	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0		1	22	NEST3-22_Time1048 - Ch 12	12	-1169	1169	1028	1.04E+08	1854	1.99
349	21	21	3	Sever Plate	12/4/2013	0	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 1	1	-5422	5422	3126	6.96E+08	1854	7.99
350	21	21	3	Sever Plate	12/4/2013	0	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 2	2	-5769	5769	3761	9.00E+08	2439	9.33
351	21	21	3	Sever Plate	12/4/2013	0	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 3	3	-3707	3707	4245	8.05E+08	2439	11.5
352	21	21	3	Sever Plate	12/4/2013	0	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 4	4	-4652	4652	4735	7.61E+08	2049	10.73
353	21	21	3	Sever Plate	12/4/2013	0	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 5	5	-3055	3055	4654	6.67E+08	3756	11.75
354	21	21	3	Sever Plate	12/4/2013	0	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 6	6	-2222	2222	4658	5.73E+08	3756	12.23
355	21	21	3	Sever Plate	12/4/2013	0	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 7	7	-3345	3345	3202	5.55E+08	3756	10.15
356	21	21	3	Sever Plate	12/4/2013	0	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 8	8	-3133	3133	2877	4.81E+08	3756	9.07
357	21	21	3	Sever Plate	12/4/2013	0	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 9	9	-3670	3670	2480	4.78E+08	2049	7.78
358	21	21	3	Sever Plate	12/4/2013	0	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 10	10	-3159	3159	2023	5.08E+08	2049	6.85
359	21	21	3	Sever Plate	12/4/2013	0	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 11	11	-3238	3238	3460	6.30E+08	1854	15.35
360	21	21	3	Sever Plate	12/4/2013	0	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	21	NEST3-21_1048 - Ch 12	12	-2970	2970	2717	4.04E+08	1805	4.96
121	4R	4	1	Monolithic	12/12/2013	1	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 1	1	-7668	7668	5406	1.26E+09	1220	6.52
122	4R	4	1	Monolithic	12/12/2013	1	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 2	2	-4887	4887	3899	8.75E+08	1366	7.73
123	4R	4	1	Monolithic	12/12/2013	1	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 3	3	-4298	4298	4754	8.42E+08	1073	11.27
124	4R	4	1	Monolithic	12/12/2013	1	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 4	4	-5202	5202	4945	8.93E+08	1073	6.57
125	4R	4	1	Monolithic	12/12/2013	1	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 5	5	-4053	4053	4156	9.07E+08	1073	11.99
126	4R	4	1	Monolithic	12/12/2013	1	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 6	6	-3142	3142	2364	5.93E+08	1073	7.06
127	4R	4	1	Monolithic	12/12/2013	1	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 7	7	-2928	2928	3373	7.07E+08	2146	6.42
128	4R	4	1	Monolithic	12/12/2013	1	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 8	8	-2599	2599	2124	4.88E+08	1220	8.88
129	4R	4	1	Monolithic	12/12/2013	1	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 9	9	-2607	2607	3329	7.52E+08	2146	8.88
130	4R	4	1	Monolithic	12/12/2013	1	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 10	10	-1996	1996	2579	4.70E+08	1366	5.85
131	4R	4	1	Monolithic	12/12/2013	1	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 11	11	-2961	2961	3971	6.21E+08	6146	7.03
132	4R	4	1	Monolithic	12/12/2013	1	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	4R	NESr1-04_Time1048 - Ch 12	12	-3081	3081	2211	4.38E+08	2195	3.54
85	2R	2	1	Monolithic	12/16/2013	1	9	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 1	1	-5489	5489	4484	1.58E+09	1073	21.08
86	2R	2	1	Monolithic	12/16/2013	1	9	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 2	2	-4654	4654	4574	1.24E+09	927	23.97
87	2R	2	1	Monolithic	12/16/2013	1	21	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 3	3	-4120	4120	4468	1.51E+09	1171	19.35
88	2R	2	1	Monolithic	12/16/2013	1	21	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 4	4	-3954	3954	4588	1.18E+09	1756	13.47
89	2R	2	1	Monolithic	12/16/2013	1	33	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 5	5	-3700	3700	3780	1.52E+09	927	30.77
90	2R	2	1	Monolithic	12/16/2013	1	33	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 6	6	-3549	3549	3997	1.26E+09	927	22.26
91	2R	2	1	Monolithic	12/16/2013	1	45	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 7	7	-3478	3478	3637	1.41E+09	3171	21.34
92	2R	2	1	Monolithic	12/16/2013	1	45	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 8	8	-3203	3203	3728	1.13E+09	3610	11.14
93	2R	2	1	Monolithic	12/16/2013	1	57	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 9	9	-3554	3554	3851	1.37E+09	2927	17.39
94	2R	2	1	Monolithic	12/16/2013	1	57	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 10	10	-2503	2503	4468	1.14E+09	2927	13.44
95	2R	2	1	Monolithic	12/16/2013	1	69	T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 11	11	-3783	3783	3646	9.22E+08	5366	6.41
96	2R	2	1	Monolithic	12/16/2013	1	69	B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1		1	2R	NESr1-02_1048 - Ch 12	12	-2536	2536	2169	6.90E+08	1610	11.3
409	26	26	3	Sever Plate	12/18/2013	0	9	T	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 1	1	-2642	2642	3324	2.10E+08	585	1.81
410	26	26	3	Sever Plate	12/18/2013	0	9	B	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 2	2	-1810	1810	3619	2.05E+08	585	2.54
411	26	26	3	Sever Plate	12/18/2013	0	21	T	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 3	3	-1203	1203	2871	1.61E+08	488	2.46
412	26	26	3	Sever Plate	12/18/2013	0	21	B	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 4	4	-1595	1595	3058	2.27E+08	488	2.49
413	26	26	3	Sever Plate	12/18/2013	0	33	T	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 5	5	-2024	2024	2296	1.76E+08	634	2.22
414	26	26	3	Sever Plate	12/18/2013	0	33	B	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 6	6	-2139	2139	2354	2.12E+08	439	3.24
415	26	26	3	Sever Plate	12/18/2013	0	45	T	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 7	7	-2272	2272	1723	1.82E+08	634	3.95
416	26	26	3	Sever Plate	12/18/2013	0	45	B	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 8	8	-2492	2492	1218	1.59E+08	634	2.46
417	26	26	3	Sever Plate	12/18/2013	0	57	T	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 9	9	-2134	2134	1256	1.61E+08	488	2.05
418	26	26	3	Sever Plate	12/18/2013	0	57	B	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 10	10	-1681	1681	1275	1.31E+08	488	2.27
419	26	26	3	Sever Plate	12/18/2013	0	69	T	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 11	11	-1660	1660	1676	1.44E+08	1463	1.89
420	26	26	3	Sever Plate	12/18/2013	0	69	B	1	22	Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1		1	26	NEST3-26_Time1048 - Ch 12	12	-1404	1404	1435	1.09E+08	1902	1.29
217	10R	10	1	Monolithic	1/16/2014	1	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 1	1	-4947	4947	6354	9.50E+08	1122	10.84
218	10R	10	1	Monolithic	1/16/2014	1	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 2	2	-5027	5027	5308	9.81E+08	1122	17.6
219	10R	10	1	Monolithic	1/16/2014	1	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 3	3	-4901	4901	3667	1.20E+09	488	13.7
220	10R	10	1	Monolithic	1/16/2014	1	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 4	4	-4255	4255	3672	8.59E+08	537	10.01
221	10R	10	1	Monolithic	1/16/2014	1	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 5	5	-3319	3319	2484	9.89E+08	1122	19.83
222	10R	10	1	Monolithic	1/16/2014	1	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 6	6	-3718	3718	3075	8.56E+08	1122	12.28
223	10R	10	1	Monolithic	1/16/2014	1	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 7	7	-3326	3326	2819	8.33E+08	878	11.27
224	10R	10	1	Monolithic	1/16/2014	1	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 8	8	-3260	3260	2751	7.91E+08	976	12.04
225	10R	10	1	Monolithic	1/16/2014	1	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 9	9	-3080	3080	3320	7.47E+08	1122	7.25
226	10R	10	1	Monolithic	1/16/2014	1	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 10	10	-2604	2604	3242	7.31E+08	1122	16.29
227	10R	10	1	Monolithic	1/16/2014	1	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 11	11	-3821	3821	3818	8.73E+08	5171	8.47
228	10R	10	1	Monolithic	1/16/2014	1	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0		1	10R	NESTr1-10_1048 - Ch 12	12	-3107	3107	2284	6.58E+08	537	15.64
193	9R	9	1	Monolithic	1/23/2014	1	9	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 1	1	-6681	6681	6966	1.36E+09	1756	12.68
194	9R	9	1	Monolithic	1/23/2014	1	9	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 2	2	-4445	4445	5701	9.22E+08	1951	8.6
195	9R	9	1	Monolithic	1/23/2014	1	21	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 3	3	-4896	4896	6589	1.02E+09	1171	12.44
196	9R	9	1	Monolithic	1/23/2014	1	21	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 4	4	-3521	3521	3957	8.98E+08	1951	8.83
197	9R	9	1	Monolithic	1/23/2014	1	33	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 5	5	-4107	4107	4216	9.12E+08	1951	11.25

198	9R	9	1	Monolithic	1/23/2014	1	33	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 6	6	-4106	4106	3312	7.00E+08	1171	10.44
199	9R	9	1	Monolithic	1/23/2014	1	45	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 7	7	-3243	3243	3085	8.64E+08	1171	9.22
200	9R	9	1	Monolithic	1/23/2014	1	45	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 8	8	-3134	3134	3353	6.89E+08	1756	8.61
201	9R	9	1	Monolithic	1/23/2014	1	57	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 9	9	-3136	3136	4757	8.12E+08	1317	5.59
202	9R	9	1	Monolithic	1/23/2014	1	57	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 10	10	-2291	2291	2296	4.79E+08	1366	7.92
203	9R	9	1	Monolithic	1/23/2014	1	69	T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 11	11	-2812	2812	2803	6.32E+08	976	5.64
204	9R	9	1	Monolithic	1/23/2014	1	69	B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	9R	NESTr1-09_1048 - Ch 12	12	-2735	2735	2347	4.56E+08	878	4.71
553	28	28	3	Sever Plate	1/24/2014	0	9	T	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 1	1	-3298	3298	5055	5.33E+08	976	8.39
557	28	28	3	Sever Plate	1/24/2014	0	9	B	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 2	2	-2883	2883	4536	4.74E+08	2439	7.84
558	28	28	3	Sever Plate	1/24/2014	0	21	T	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 3	3	-4094	4094	3978	5.04E+08	2439	8.37
559	28	28	3	Sever Plate	1/24/2014	1/0/1900	21	B	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 4	4	-3421	3421	3674	3.99E+08	976	5
560	28	28	3	Sever Plate	1/24/2014	1/0/1900	33	T	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 5	5	-4355	4355	2953	4.46E+08	3366	5.05
561	28	28	3	Sever Plate	1/24/2014	1/0/1900	33	B	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 6	6	-2839	2839	1513	3.26E+08	3317	5.04
562	28	28	3	Sever Plate	1/24/2014	1/0/1900	45	T	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 7	7	-2919	2919	2236	3.63E+08	3561	6.63
563	28	28	3	Sever Plate	1/24/2014	1/0/1900	45	B	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 8	8	-2360	2360	2034	2.57E+08	2976	3.73
564	28	28	3	Sever Plate	1/24/2014	1/0/1900	57	T	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 9	9	-1601	1601	2670	2.97E+08	3268	7.97
554	28	28	3	Sever Plate	1/24/2014	0	57	B	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 10	10	-1636	1636	2276	2.83E+08	3561	4.23
555	28	28	3	Sever Plate	1/24/2014	0	69	T	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 11	11	-2259	2259	2529	2.53E+08	4976	1.88
556	28	28	3	Sever Plate	1/24/2014	0	69	B	1	10	Tape	Al Honey	Al Honey - 1	Tape Composite	0	0	0	0		1	28	NEST3-28_1048 - Ch 12	12	-2348	2348	2210	2.81E+08	4098	3.8
373	23	23	3	Sever Plate	4/18/2014	0	9	T	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 1	1	-5017	5017	4630	6.69E+08	4293	5.5
374	23	23	3	Sever Plate	4/18/2014	0	9	B	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 2	2	-6056	6056	3562	5.89E+08	2829	3.7
375	23	23	3	Sever Plate	4/18/2014	0	21	T	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 3	3	-3179	3179	4541	4.81E+08	4341	2.38
376	23	23	3	Sever Plate	4/18/2014	0	21	B	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 4	4	-2533	2533	3924	4.72E+08	4000	4.39
377	23	23	3	Sever Plate	4/18/2014	0	33	T	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 5	5	-2982	2982	3384	4.57E+08	3024	3.61
378	23	23	3	Sever Plate	4/18/2014	0	33	B	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 6	6	-2798	2798	3078	3.62E+08	4146	2.14
379	23	23	3	Sever Plate	4/18/2014	0	45	T	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 7	7	-2613	2613	3486	4.08E+08	3805	6.06
380	23	23	3	Sever Plate	4/18/2014	0	45	B	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 8	8	-2113	2113	2280	3.22E+08	2829	3.27
381	23	23	3	Sever Plate	4/18/2014	0	57	T	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 9	9	-2564	2564	2028	3.09E+08	3805	3.12
382	23	23	3	Sever Plate	4/18/2014	0	57	B	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 10	10	-2296	2296	2977	3.97E+08	3951	3.68
383	23	23	3	Sever Plate	4/18/2014	0	69	T	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 11	11	-2778	2778	2079	3.64E+08	2146	5.16
384	23	23	3	Sever Plate	4/18/2014	0	69	B	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0		1	23	NEST3-23_Time1048 - Ch 12	12	-2802	2802	1898	3.81E+08	4634	3.28
385	24	24	3	Sever Plate	4/22/2014	0	9	T	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 1	1	-3214	3214	2993	6.34E+08	1171	10.04
386	24	24	3	Sever Plate	4/22/2014	0	9	B	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 2	2	-6845	6845	3548	7.97E+08	1171	8.57
387	24	24	3	Sever Plate	4/22/2014	0	21	T	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 3	3	-3959	3959	3805	7.17E+08	1171	9.92
388	24	24	3	Sever Plate	4/22/2014	0	21	B	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 4	4	-3112	3112	3420	6.58E+08	1171	9.62
389	24	24	3	Sever Plate	4/22/2014	0	33	T	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 5	5	-2578	2578	3579	5.73E+08	3415	6.28
390	24	24	3	Sever Plate	4/22/2014	0	33	B	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 6	6	-2696	2696	3469	5.88E+08	1171	6.7
391	24	24	3	Sever Plate	4/22/2014	0	45	T	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 7	7	-2513	2513	3666	5.55E+08	341	9.39
392	24	24	3	Sever Plate	4/22/2014	0	45	B	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 8	8	-2085	2085	3325	4.49E+08	341	9.32
393	24	24	3	Sever Plate	4/22/2014	0	57	T	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 9	9	-2768	2768	3323	4.98E+08	2098	7.91
394	24	24	3	Sever Plate	4/22/2014	0	57	B	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 10	10	-2032	2032	2321	4.33E+08	2098	8.55
395	24	24	3	Sever Plate	4/22/2014	0	69	T	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 11	11	-2211	2211	2482	4.04E+08	1902	6.16
396	24	24	3	Sever Plate	4/22/2014	0	69	B	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	24	NEST3-24_Time1048 - Ch 12	12	-2952	2952	3371	4.23E+08	1463	5.3
397	25	25	3	Sever Plate	6/10/2014	0	9	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 1	1	-2283	2283	2154	2.30E+08	1171	2.53
398	25	25	3	Sever Plate	6/10/2014	0	9	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 2	2	-1676	1676	2357	2.22E+08	1171	2.58
399	25	25	3	Sever Plate	6/10/2014	0	21	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 3	3	-1631	1631	2580	2.59E+08	2244	3.36
400	25	25	3	Sever Plate	6/10/2014	0	21	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 4	4	-1486	1486	1931	2.17E+08	3317	2.47
401	25	25	3	Sever Plate	6/10/2014	0	33	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 5	5	-1345	1345	1997	2.24E+08	341	2.93
402	25	25	3	Sever Plate	6/10/2014	0	33	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 6	6	-1423	1423	2007	2.05E+08	341	2.9
403	25	25	3	Sever Plate	6/10/2014	0	45	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 7	7	-2586	2586	1525	1.72E+08	341	2.69
404	25	25	3	Sever Plate	6/10/2014	0	45	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 8	8	-1861	1861	1358	1.72E+08	3220	2.95
405	25	25	3	Sever Plate	6/10/2014	0	57	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 9	9	-1419	1419	1234	1.54E+08	488	2.46
406	25	25	3	Sever Plate	6/10/2014	0	57	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 10	10	-1189	1189	1171	1.64E+08	2244	2.92
407	25	25	3	Sever Plate	6/10/2014	0	69	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 11	11	-1351	1351	1370	1.72E+08	1902	1.95
408	25	25	3	Sever Plate	6/10/2014	0	69	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	0	1		1	25	NEST3-25_Time1048 - Ch 12	12	-1422	1422	1495	1.46E+08	293	1.74
541	27	27	3	Sever Plate	6/11/2014	0	9	T	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 1	1	-4430	4430	4082	5.11E+08	2195	4.3
545	27	27	3	Sever Plate	6/11/2014	0	9	B	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 2	2	-4223	4223	3677	4.80E+08	634	2.83
546	27	27	3	Sever Plate	6/11/2014	0	21	T	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 3	3	-2523	2523	3519	3.94E+08	2000	3.97
547	27	27	3	Sever Plate	6/11/2014	0	21	B	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 4	4	-2359	2359	1968	2.79E+08	1220	2.41
548	27	27	3	Sever Plate	6/11/2014	0	33	T	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 5	5	-3335	3335	2592	3.18E+08	2244	3.44
549	27	27	3	Sever Plate	6/11/2014	0	33	B	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 6	6	-1873	1873	2442	1.99E+08	683	3.56
550	27	27	3	Sever Plate	6/11/2014	0	45	T	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 7	7	-2182	2182	1972	2.20E+08	683	4.34
551	27	27	3	Sever Plate	6/11/2014	0	45	B	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 8	8	-1476	1476	1302	1.43E+08	683	2.53
552	27	27	3	Sever Plate	6/11/2014	0	57	T	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 9	9	-1474	1474	1272	1.84E+08	1220	2.71
542	27	27	3	Sever Plate	6/11/2014	0	57	B	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 10	10	-1778	1778	1306	1.60E+08	1854	1.94
543	27	27	3	Sever Plate	6/11/2014	0	69	T	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 11	11	-1784	1784	1608	1.56E+08	1073	2.62
544	27	27	3	Sever Plate	6/11/2014	0	69	B	1	10	Fabric	Rohacell	Rohacell - 1	Fabric Composite	0	0	0	0		1	27	NEST3-27_Time1048 - Ch 12	12	-1953	1953	1443	1.89E+08	1854	2.9
481	A05	17	4	Acoustic Foam	8/20/2014	1	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 1	1	-8779	8779	7265	1.45E+09	976	15.79
482	A05	17	4	Acoustic Foam	8/20/2014	1	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 2	2	-10529	10529	6415	1.50E+09	976	16.44
483	A05	17	4	Acoustic Foam	8/20/2014	1	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 3	3	-5423	5423	6436	1.23E+09	1512	16.62
484	A05	17	4	Acoustic Foam	8/20/2014	1	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 4	4	-4780	4780	8189	1.35E+09	976	12.98
485	A05	17	4	Acoustic Foam	8/20/2014	1	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 5	5	-3575	3575	6735	1.04E+09	3805	13
486	A05	17	4	Acoustic Foam	8/20/2014	1	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 6	6	-3368	3368	5283	9.02E+08	3805	10.58
487	A05	17	4	Acoustic Foam	8/20/2014	1	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 7	7	-3760	3760	3550	8.93E+08	1512	13.13
488	A05	17	4	Acoustic Foam	8/20/2014	1	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 8	8	-2996	2996	3452	7.66E+08	1512	14.58
489	A05	17	4	Acoustic Foam	8/20/2014	1	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 9	9	-4044	4044	3479	8.38E+08	3561	12.51
490	A05	17	4	Acoustic Foam	8/20/2014	1	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 10	10	-3619	3619	2564	8.79E+08	1512	12.11

491	A05	17	4	Acoustic Foam	8/20/2014	1	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 11	11	-2724	2724	3735	8.90E+08	195	12.24
492	A05	17	4	Acoustic Foam	8/20/2014	1	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1		1	A05	NEST05-G4_1048 - Ch 12	12	-2828	2828	2566	8.48E+08	195	12.05
433	A10	12	4	Acoustic Foam	8/21/2014	1	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 1	1	-7487	7487	4522	1.26E+09	780	7.98
434	A10	12	4	Acoustic Foam	8/21/2014	1	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 2	2	-7280	7280	5163	1.03E+09	537	6.38
435	A10	12	4	Acoustic Foam	8/21/2014	1	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 3	3	-6210	6210	4261	1.05E+09	780	9.41
436	A10	12	4	Acoustic Foam	8/21/2014	1	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 4	4	-4581	4581	4729	9.22E+08	1756	6.98
437	A10	12	4	Acoustic Foam	8/21/2014	1	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 5	5	-4159	4159	3009	9.56E+08	1951	12.4
438	A10	12	4	Acoustic Foam	8/21/2014	1	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 6	6	-3135	3135	4721	7.53E+08	585	9.05
439	A10	12	4	Acoustic Foam	8/21/2014	1	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 7	7	-3846	3846	2457	7.48E+08	1463	6.41
440	A10	12	4	Acoustic Foam	8/21/2014	1	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 8	8	-2639	2639	2683	5.66E+08	2000	7.43
441	A10	12	4	Acoustic Foam	8/21/2014	1	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 9	9	-2806	2806	2404	6.98E+08	2098	5.33
442	A10	12	4	Acoustic Foam	8/21/2014	1	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 10	10	-2623	2623	2533	5.97E+08	1317	7.55
443	A10	12	4	Acoustic Foam	8/21/2014	1	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 11	11	-2591	2591	2063	5.22E+08	2195	10.06
444	A10	12	4	Acoustic Foam	8/21/2014	1	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1		1	A10	NEST10-G4_1048 - Ch 12	12	-2476	2476	2741	5.98E+08	2195	11.77
421	A01	8	4	Acoustic Foam	8/25/2014	1	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 1	1	-3636	3636	2689	6.71E+08	2000	14.36
422	A01	8	4	Acoustic Foam	8/25/2014	1	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 2	2	-3829	3829	3375	6.07E+08	2049	9.22
423	A01	8	4	Acoustic Foam	8/25/2014	1	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 3	3	-4292	4292	3904	8.29E+08	2049	17.02
424	A01	8	4	Acoustic Foam	8/25/2014	1	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 4	4	-4054	4054	4127	5.69E+08	1951	11.95
425	A01	8	4	Acoustic Foam	8/25/2014	1	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 5	5	-3150	3150	3532	6.52E+08	1951	21.71
426	A01	8	4	Acoustic Foam	8/25/2014	1	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 6	6	-2257	2257	3151	4.38E+08	1951	6.24
427	A01	8	4	Acoustic Foam	8/25/2014	1	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 7	7	-2545	2545	2418	4.23E+08	1951	10.52
428	A01	8	4	Acoustic Foam	8/25/2014	1	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 8	8	-2251	2251	2337	3.81E+08	1951	13.63
429	A01	8	4	Acoustic Foam	8/25/2014	1	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 9	9	-2497	2497	1780	3.63E+08	1951	12.85
430	A01	8	4	Acoustic Foam	8/25/2014	1	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 10	10	-2314	2314	1666	3.10E+08	1902	8.16
431	A01	8	4	Acoustic Foam	8/25/2014	1	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 11	11	-2260	2260	2150	3.93E+08	1707	9.52
432	A01	8	4	Acoustic Foam	8/25/2014	1	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1		1	A01	NEST01-G4_Time1048 - Ch 12	12	-2022	2022	2066	3.87E+08	1902	9.73
505	A07	18	4	Acoustic Foam	8/26/2014	1	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 1	1	-5961	5961	4014	1.29E+09	927	13.41
506	A07	18	4	Acoustic Foam	8/26/2014	1	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 2	2	-6894	6894	4842	1.73E+09	927	8.52
507	A07	18	4	Acoustic Foam	8/26/2014	1	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 3	3	-7264	7264	5042	1.73E+09	1024	11.49
508	A07	18	4	Acoustic Foam	8/26/2014	1	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 4	4	-3611	3611	3727	1.28E+09	1171	12.85
509	A07	18	4	Acoustic Foam	8/26/2014	1	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 5	5	-4042	4042	3265	1.20E+09	829	14.99
510	A07	18	4	Acoustic Foam	8/26/2014	1	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 6	6	-4088	4088	4342	1.64E+09	829	29.18
511	A07	18	4	Acoustic Foam	8/26/2014	1	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 7	7	-3683	3683	3974	1.25E+09	927	13.78
512	A07	18	4	Acoustic Foam	8/26/2014	1	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 8	8	-3402	3402	3493	1.32E+09	927	20.19
513	A07	18	4	Acoustic Foam	8/26/2014	1	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 9	9	-3018	3018	3197	1.01E+09	829	13.08
514	A07	18	4	Acoustic Foam	8/26/2014	1	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 10	10	-4250	4250	5543	1.70E+09	829	18.45
515	A07	18	4	Acoustic Foam	8/26/2014	1	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 11	11	-3530	3530	4736	1.23E+09	1317	8.57
516	A07	18	4	Acoustic Foam	8/26/2014	1	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1		1	A07	NEST07-G4_1048 - Ch 12	12	-3890	3890	3132	1.18E+09	1415	13.51
517	A08	11	4	Acoustic Foam	8/26/2014	1	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 1	1	-3600	3600	3330	8.86E+08	829	15.7
518	A08	11	4	Acoustic Foam	8/26/2014	1	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 2	2	-4699	4699	3039	7.36E+08	1220	11.61
519	A08	11	4	Acoustic Foam	8/26/2014	1	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 3	3	-4118	4118	3421	8.09E+08	1659	16.75
520	A08	11	4	Acoustic Foam	8/26/2014	1	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 4	4	-3125	3125	3163	6.55E+08	829	11.46
521	A08	11	4	Acoustic Foam	8/26/2014	1	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 5	5	-3536	3536	2745	6.19E+08	829	10.42
522	A08	11	4	Acoustic Foam	8/26/2014	1	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 6	6	-2684	2684	2753	5.58E+08	829	15.66
523	A08	11	4	Acoustic Foam	8/26/2014	1	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 7	7	-1635	1635	1865	5.25E+08	439	23.14
524	A08	11	4	Acoustic Foam	8/26/2014	1	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 8	8	-2381	2381	1536	4.28E+08	439	22.74
525	A08	11	4	Acoustic Foam	8/26/2014	1	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 9	9	-1881	1881	2360	4.55E+08	829	14.06
526	A08	11	4	Acoustic Foam	8/26/2014	1	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 10	10	-1592	1592	1739	3.54E+08	537	7.7
527	A08	11	4	Acoustic Foam	8/26/2014	1	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 11	11	-1660	1660	2017	4.09E+08	829	11.86
528	A08	11	4	Acoustic Foam	8/26/2014	1	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1		1	A08	NEST08-G4_1048 - Ch 12	12	-1860	1860	2070	4.84E+08	1854	10.39
457	A03	P1	4	Acoustic Foam	8/27/2014	2	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 1	1	-4998	4998	2418	9.11E+08	1415	17.04
458	A03	P1	4	Acoustic Foam	8/27/2014	2	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 2	2	-6685	6685	4698	9.37E+08	1220	5.63
459	A03	P1	4	Acoustic Foam	8/27/2014	2	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 3	3	-3077	3077	4493	1.06E+09	1073	12.54
460	A03	P1	4	Acoustic Foam	8/27/2014	2	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 4	4	-3033	3033	3841	8.55E+08	1073	9.12
461	A03	P1	4	Acoustic Foam	8/27/2014	2	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 5	5	-3713	3713	3234	9.12E+08	1073	14.19
462	A03	P1	4	Acoustic Foam	8/27/2014	2	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 6	6	-2919	2919	2505	5.77E+08	1415	10.28
463	A03	P1	4	Acoustic Foam	8/27/2014	2	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 7	7	-2775	2775	2590	6.97E+08	1463	8.66
464	A03	P1	4	Acoustic Foam	8/27/2014	2	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 8	8	-2360	2360	2622	5.57E+08	5171	6.57
465	A03	P1	4	Acoustic Foam	8/27/2014	2	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 9	9	-2728	2728	2563	6.23E+08	1415	8.75
466	A03	P1	4	Acoustic Foam	8/27/2014	2	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 10	10	-1944	1944	2080	4.73E+08	1512	5.42
467	A03	P1	4	Acoustic Foam	8/27/2014	2	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 11	11	-2606	2606	3567	5.05E+08	6732	2.6
468	A03	P1	4	Acoustic Foam	8/27/2014	2	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1		1	A03	NEST03-G4_Time1048 - Ch 12	12	-1532	1532	1583	4.21E+08	3463	3.81
469	A04	P1	4	Acoustic Foam	9/2/2014	3	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 1	1	-3420	3420	4613	5.77E+08	2000	8.48
470	A04	P1	4	Acoustic Foam	9/2/2014	3	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 2	2	-3706	3706	4035	6.85E+08	1951	8.46
471	A04	P1	4	Acoustic Foam	9/2/2014	3	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 3	3	-3757	3757	3197	6.56E+08	1902	10.31
472	A04	P1	4	Acoustic Foam	9/2/2014	3	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 4	4	-3922	3922	3231	6.11E+08	634	8.21
473	A04	P1	4	Acoustic Foam	9/2/2014	3	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 5	5	-2960	2960	2598	4.76E+08	1951	7.34
474	A04	P1	4	Acoustic Foam	9/2/2014	3	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 6	6	-2574	2574	1913	4.69E+08	1902	7.46
475	A04	P1	4	Acoustic Foam	9/2/2014	3	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 7	7	-1985	1985	1900	3.12E+08	1902	7.71
476	A04	P1	4	Acoustic Foam	9/2/2014	3	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 8	8	-2113	2113	1763	2.97E+08	537	6.84
477	A04	P1	4	Acoustic Foam	9/2/2014	3	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 9	9	-1462	1462	1300	2.61E+08	1902	4.17
478	A04	P1	4	Acoustic Foam	9/2/2014	3	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 10	10	-1360	1360	1376	2.26E+08	1902	6.11
479	A04	P1	4	Acoustic Foam	9/2/2014	3	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 11	11	-1135	1135	1473	2.33E+08	1171	4.5
480	A04	P1	4	Acoustic Foam	9/2/2014	3	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1		1	A04	NEST04-G4_1048 - Ch 12	12	-1238	1238	1860	3.11E+08	1805	7.1

493	A06	17	4	Acoustic Foam	9/3/2014	2	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 1	1	-7159	7159	6109	2.45E+09	927	17.78
494	A06	17	4	Acoustic Foam	9/3/2014	2	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 2	2	-3887	3887	5178	1.87E+09	341	19.74
495	A06	17	4	Acoustic Foam	9/3/2014	2	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 3	3	-4031	4031	4334	2.15E+09	1024	19.81
496	A06	17	4	Acoustic Foam	9/3/2014	2	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 4	4	-4156	4156	5574	2.47E+09	2195	18.52
497	A06	17	4	Acoustic Foam	9/3/2014	2	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 5	5	-6442	6442	6108	2.51E+09	1415	29.51
498	A06	17	4	Acoustic Foam	9/3/2014	2	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 6	6	-5289	5289	4719	2.20E+09	829	29.09
499	A06	17	4	Acoustic Foam	9/3/2014	2	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 7	7	-5161	5161	5804	2.33E+09	927	16.89
500	A06	17	4	Acoustic Foam	9/3/2014	2	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 8	8	-6008	6008	6249	2.97E+09	1902	21.91
501	A06	17	4	Acoustic Foam	9/3/2014	2	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 9	9	-4392	4392	5517	2.68E+09	1317	14.54
502	A06	17	4	Acoustic Foam	9/3/2014	2	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 10	10	-4134	4134	4617	2.34E+09	732	19.77
503	A06	17	4	Acoustic Foam	9/3/2014	2	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 11	11	-4308	4308	4536	1.88E+09	1902	21.61
504	A06	17	4	Acoustic Foam	9/3/2014	2	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		1	A06	NEST06-G4_1048 - Ch 12	12	-6155	6155	5958	2.65E+09	1902	16.72
529	A09	11	4	Acoustic Foam	9/4/2014	2	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 1	1	-5186	5186	4761	9.44E+08	976	22.74
530	A09	11	4	Acoustic Foam	9/4/2014	2	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 2	2	-5980	5980	3560	8.35E+08	976	22.51
531	A09	11	4	Acoustic Foam	9/4/2014	2	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 3	3	-3817	3817	4198	7.63E+08	976	21.34
532	A09	11	4	Acoustic Foam	9/4/2014	2	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 4	4	-4562	4562	4280	8.13E+08	976	19.81
533	A09	11	4	Acoustic Foam	9/4/2014	2	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 5	5	-2682	2682	2826	5.54E+08	976	13.09
534	A09	11	4	Acoustic Foam	9/4/2014	2	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 6	6	-2590	2590	3681	5.45E+08	976	13.62
535	A09	11	4	Acoustic Foam	9/4/2014	2	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 7	7	-2261	2261	2569	3.79E+08	390	5.68
536	A09	11	4	Acoustic Foam	9/4/2014	2	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 8	8	-1925	1925	2688	4.03E+08	976	5.51
537	A09	11	4	Acoustic Foam	9/4/2014	2	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 9	9	-2268	2268	1771	3.24E+08	488	11.32
538	A09	11	4	Acoustic Foam	9/4/2014	2	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 10	10	-1909	1909	2316	3.64E+08	488	13.09
539	A09	11	4	Acoustic Foam	9/4/2014	2	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 11	11	-1963	1963	2432	4.12E+08	341	12.6
540	A09	11	4	Acoustic Foam	9/4/2014	2	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		1	A09	NEST09-G4_1048 - Ch 12	12	-2011	2011	1693	3.72E+08	341	11.33
445	A02	8	4	Acoustic Foam	9/5/2014	2	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 1	1	-3884	3884	2397	4.55E+08	1220	6.88
446	A02	8	4	Acoustic Foam	9/5/2014	2	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 2	2	-4328	4328	2360	4.46E+08	1220	4.35
447	A02	8	4	Acoustic Foam	9/5/2014	2	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 3	3	-3099	3099	2999	4.65E+08	1220	6.46
448	A02	8	4	Acoustic Foam	9/5/2014	2	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 4	4	-3064	3064	2251	4.61E+08	1220	5.14
449	A02	8	4	Acoustic Foam	9/5/2014	2	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 5	5	-2090	2090	2588	3.31E+08	780	5.42
450	A02	8	4	Acoustic Foam	9/5/2014	2	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 6	6	-2238	2238	2620	4.06E+08	732	7.03
451	A02	8	4	Acoustic Foam	9/5/2014	2	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 7	7	-2653	2653	2106	3.11E+08	3122	4.57
452	A02	8	4	Acoustic Foam	9/5/2014	2	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 8	8	-1952	1952	1940	2.62E+08	3512	2.92
453	A02	8	4	Acoustic Foam	9/5/2014	2	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 9	9	-1656	1656	1321	2.19E+08	4098	1.72
454	A02	8	4	Acoustic Foam	9/5/2014	2	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 10	10	-1470	1470	1253	1.91E+08	3512	2.71
455	A02	8	4	Acoustic Foam	9/5/2014	2	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 11	11	-1399	1399	1383	2.21E+08	780	3.3
456	A02	8	4	Acoustic Foam	9/5/2014	2	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1		1	A02	NEST02-G4_Time1048 - Ch 12	12	-1341	1341	1108	1.90E+08	2098	3.39

Freq Break Max

Variable	**Maximum Frequency Break Point**
Transformation	**log(Frequency Break Point Max)**
Table	SRS Preliminary Parameters
Model File	150108 1436 Max FB Dist3, TypeThick, Dist x Damp split-plot.jrp
Excluded Values	Tests 27, 28 not used in model creation; used as confirmation points.
Reason for Exclusions	
Model	Baseline analysis

```
Exp(
    7.47667461668358 + 0.256726082283925 * ((:Distance from LSC - 39) / 30) +
    Match( :Name( "Type - Thick" ),
        Monolithic - 0.2, -0.071171881273597,
        Monolithic - 0.3, -0.132292944311272,
        Al Honey - 1, 0.0876199515198583,
        Rohacell - 1, -0.0130949295614228,
        Aluminum - 0.187, 0.128939803626434,
        .
    ) + Match( :Acoustic Damped,
        0, 0.208717894264659,
        1, -0.208717894264659,
        .
    ) + ((:Distance from LSC - 39) / 30) * Match( :Acoustic Damped,
        0, -0.102207869493011,
        1, 0.102207869493011,
        .
    ) + ((((:Distance from LSC - 39) / 30) * (:Distance from LSC - 39)) / 30) *
    0.0279313603300628 + ((:Distance from LSC - 39) / 30) *
    Match( :Name( "Type - Thick" ),
        Monolithic - 0.2, 0.0761703094306936,
        Monolithic - 0.3, 0.0659903940637854,
        Al Honey - 1, -0.0510118941049901,
        Rohacell - 1, -0.105802245822947,
        Aluminum - 0.187, 0.0146534364334584,
        .
    ) + ((((((:Distance from LSC - 39) / 30) * (:Distance from LSC - 39)) / 30) * (
    :Distance from LSC - 39)) / 30) * -0.284608051208915
)
```

c	Frequency Break Point Max	Pred Formula Frequency Break Point Max	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree
1	3569	2857.49	711.51	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
2	1829	2402.73	-573.73	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
3	2235	2401.60	-166.60	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
4	3956	2558.07	1397.93	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
5	2948	2602.99	345.01	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
6	1972	2268.39	-296.39	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
7	2205	2857.49	-652.49	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
8	3837	2402.73	1434.27	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
9	2247	2401.60	-154.60	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
10	4232	2558.07	1673.93	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
11	2923	2602.99	320.01	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
12	4148	2268.39	1879.61	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
13	1265	2199.69	-934.69	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
14	2802	1895.69	906.31	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
15	2145	1942.01	202.99	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
16	1570	2120.06	-550.06	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
17	1695	2211.03	-516.03	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
18	1651	1974.82	-323.82	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
19	2869	2199.69	669.31	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
20	940	1895.69	-955.69	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
21	3474	1942.01	1531.99	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
22	3350	2120.06	1229.94	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
23	3368	2211.03	1156.97	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
24	3191	1974.82	1216.18	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
25	1676	2199.69	-523.69	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
26	2252	1895.69	356.31	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
27	1641	1942.01	-301.01	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
28	1574	2120.06	-546.06	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
29	1278	2211.03	-933.03	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
30	2593	1974.82	618.18	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
31	2644	2199.69	444.31	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
32	2587	1895.69	691.31	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
33	2519	1942.01	576.99	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
34	1952	2120.06	-168.06	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
35	1989	2211.03	-222.03	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
36	1980	1974.82	5.18	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
43	1994	2199.69	-205.69	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
44	2440	1895.69	544.31	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
45	2051	1942.01	108.99	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
46	2492	2120.06	371.94	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1

Table of Estimates

Average of Pred Formula Frequency Break Point Max

Type - Thick	Type	Panel Thickness	Acoustic Dan	Distance fro 9	21	33	45	57	69
Al Honey - 1	**Al Honey**	1	0	2927.9	2398.1	2334.9	2422.5	2401.1	2038.2
Al Honey - 1	**Al Honey**	1	1	1572.1	1397.4	1476.4	1662.4	1788.1	1647.2
Aluminum - 0.187	**Homogeneous**	0.187	0	2857.5	2402.7	2401.6	2558.1	2603.0	2268.4
Aluminum - 0.187	**Homogeneous**	0.187	1	1534.3	1400.1	1518.6	1755.4	1938.4	1833.2
Monolithic - 0.2	**Monolithic**	0.2	0	2199.7	1895.7	1942.0	2120.1	2211.0	1974.8
Monolithic - 0.3	**Monolithic**	0.3	0	2090.4	1794.2	1830.6	1990.3	2067.3	1838.9
Monolithic - 0.3	**Monolithic**	0.3	1	1122.5	1045.5	1157.6	1365.8	1539.5	1486.1
Rohacell - 1	**Rohacell**	1	0	2796.5	2240.8	2134.4	2166.5	2100.9	1744.7
Rohacell - 1	**Rohacell**	1	1	1501.6	1305.7	1349.7	1486.7	1564.5	1410.0

Aluminum 10 gpf Undamped, 10"
2790.5

Al Honey - 1	Al Honey	1	0	105%	86%	84%	87%	86%	73%
Al Honey - 1	Al Honey	1	1	56%	50%	53%	60%	64%	59%
Aluminum - 0.187	Homogeneous	0.187	0	102%	86%	86%	92%	93%	81%
Aluminum - 0.187	Homogeneous	0.187	1	55%	50%	54%	63%	69%	66%
Monolithic - 0.2	Monolithic	0.2	0	79%	68%	70%	76%	79%	71%
Monolithic - 0.3	Monolithic	0.3	0	75%	64%	66%	71%	74%	66%
Monolithic - 0.3	Monolithic	0.3	1	40%	37%	41%	49%	55%	53%
Rohacell - 1	Rohacell	1	0	100%	80%	76%	78%	75%	63%
Rohacell - 1	Rohacell	1	1	54%	47%	48%	53%	56%	51%

Variance Components

Random Effect	Var Ratio	**Var Component**	Std Error	95% Lower	95% Upper	**Pct of Tota**	**Std Dev**
Panel No	0.1097201	**0.007672**	0.0156711	-0.023043	0.038387	**6.1%**	**0.08759**
Test No	0.6872973	**0.0480584**	0.0183314	0.0121296	0.083987	**38.2%**	**0.219222**
Residual		**0.0699238**	0.0067129	0.0584288	0.085199	**55.6%**	**0.264431**
Total		**0.1256542**	0.016574	0.0985842	0.165699	**100.0%**	**0.354477**

0.01

Alternate Model

Simple T/B fixed var
150129 1458 Max FB Dist3, Damp split-plot.jrp

```
Exp(
7.4764533806607 + 0.176312424977772 * ((:Distance from LSC - 39) / 30) +
Match( :Acoustic Damped, "0", 0.193963571811882, "1", -0.193963571811882, . ) +
((:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) *
0.0279313603300806) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC
 - 39) / 30) * (((:Distance from LSC - 39) / 30) * -0.284608051208917))
)
```

47	3307	2211.03	1095.97	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
48	1876	1974.82	-98.82	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
61	2594	2090.44	503.56	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
62	1406	1794.22	-388.22	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
63	2022	1830.59	191.41	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
64	2239	1990.30	248.70	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
65	3655	2067.27	1587.73	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
66	3039	1838.92	1200.08	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
49	1756	2090.44	-334.44	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
50	1899	1794.22	104.78	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
51	1832	1830.59	1.41	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
52	1466	1990.30	-524.30	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
53	1643	2067.27	-424.27	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
54	2487	1838.92	648.08	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
67	2631	2199.69	431.31	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
68	3351	1895.69	1455.31	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
69	3209	1942.01	1266.99	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
70	2767	2120.06	646.94	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
71	3087	2211.03	875.97	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
72	2952	1974.82	977.18	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
73	2560	2199.69	360.31	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
74	2016	1895.69	120.31	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
75	1372	1942.01	-570.01	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
76	1696	2120.06	-424.06	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
77	1885	2211.03	-326.03	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
78	2031	1974.82	56.18	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
79	2500	2199.69	300.31	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
80	1825	1895.69	-70.69	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
81	1089	1942.01	-853.01	7	7	1	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
82	1651	2120.06	-469.06	7	7	1	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
83	2354	2211.03	142.97	7	7	1	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
84	2303	1974.82	328.18	7	7	1	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
85	2759	2090.44	668.56	8	8	1	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
86	1495	1794.22	-299.22	8	8	1	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
87	1476	1830.59	-354.59	8	8	1	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
88	2056	1990.30	65.70	8	8	1	5/16/2013	0	45	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
89	2142	2067.27	74.73	8	8	1	5/16/2013	0	57	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
90	2208	1838.92	369.08	8	8	1	5/16/2013	0	69	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
97	1707	2090.44	-383.44	9	9	1	5/17/2013	0	9	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
98	1252	1794.22	-542.22	9	9	1	5/17/2013	0	21	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
99	945	1830.59	-885.59	9	9	1	5/17/2013	0	33	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
100	1874	1990.30	-116.30	9	9	1	5/17/2013	0	45	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
101	1917	2067.27	-150.27	9	9	1	5/17/2013	0	57	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
102	2495	1838.92	656.08	9	9	1	5/17/2013	0	69	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
109	3060	2199.69	860.31	10	10	1	5/29/2013	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
110	2288	1895.69	392.31	10	10	1	5/29/2013	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
111	2644	1942.01	701.99	10	10	1	5/29/2013	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
112	1613	2120.06	-507.06	10	10	1	5/29/2013	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
113	2007	2211.03	-204.03	10	10	1	5/29/2013	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
114	2395	1974.82	420.18	10	10	1	5/29/2013	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
115	2458	2927.91	-469.91	11	11	2	5/31/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1
116	2587	2398.12	188.88	11	11	2	5/31/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1
117	2061	2334.86	-273.86	11	11	2	5/31/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1
118	3128	2422.50	705.50	11	11	2	5/31/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1
119	3210	2401.13	808.87	11	11	2	5/31/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1
120	1778	2038.24	-260.24	11	11	2	5/31/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1
121	2957	2796.49	160.51	12	14	2	6/28/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
122	1719	2240.82	-521.82	12	14	2	6/28/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
123	1701	2134.42	-433.42	12	14	2	6/28/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
124	1930	2166.53	-236.53	12	14	2	6/28/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
125	1940	2100.87	-160.87	12	14	2	6/28/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
126	1533	1744.70	-211.70	12	14	2	6/28/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
127	4158	2796.49	1361.51	13	13	2	7/16/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
128	2016	2240.82	-224.82	13	13	2	7/16/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
129	2103	2134.42	-31.42	13	13	2	7/16/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
130	2369	2166.53	202.47	13	13	2	7/16/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
131	1910	2100.87	-190.87	13	13	2	7/16/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1
132	1636	1744.70	-108.70	13	13	2	7/16/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1

133	2923	2927.91	-4.91	14	12	2	7/17/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
134	1198	2398.12	-1200.12	14	12	2	7/17/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
135	2714	2334.86	379.14	14	12	2	7/17/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
136	2281	2422.50	-141.50	14	12	2	7/17/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
137	2145	2401.13	-256.13	14	12	2	7/17/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
138	1799	2038.24	-239.24	14	12	2	7/17/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
139	3771	2927.91	843.09	15	16	2	7/18/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
140	2650	2398.12	251.88	15	16	2	7/18/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
141	2145	2334.86	-189.86	15	16	2	7/18/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
142	2577	2422.50	154.50	15	16	2	7/18/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
143	2494	2401.13	92.87	15	16	2	7/18/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
144	1735	2038.24	-303.24	15	16	2	7/18/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
145	2026	2796.49	-770.49	16	18	2	7/23/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
146	1690	2240.82	-550.82	16	18	2	7/23/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
147	1704	2134.42	-430.42	16	18	2	7/23/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
148	1858	2166.53	-308.53	16	18	2	7/23/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
149	1911	2100.87	-189.87	16	18	2	7/23/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
150	1593	1744.70	-151.70	16	18	2	7/23/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
151	3152	2927.91	224.09	17	15	2	8/9/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
152	1653	2398.12	-745.12	17	15	2	8/9/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
153	2324	2334.86	-10.86	17	15	2	8/9/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
154	3379	2422.50	956.50	17	15	2	8/9/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
155	2809	2401.13	407.87	17	15	2	8/9/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
156	1934	2038.24	-104.24	17	15	2	8/9/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
157	2447	2796.49	-349.49	18	17	2	8/19/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
158	2331	2240.82	90.18	18	17	2	8/19/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
159	2282	2134.42	147.58	18	17	2	8/19/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
160	2169	2166.53	2.47	18	17	2	8/19/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
161	1924	2100.87	-176.87	18	17	2	8/19/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
162	1701	1744.70	-43.70	18	17	2	8/19/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
163	3281	2927.91	353.09	19	19	3	10/31/2013	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1
164	3250	2398.12	851.88	19	19	3	10/31/2013	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1
165	3408	2334.86	1073.14	19	19	3	10/31/2013	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1
166	3440	2422.50	1017.50	19	19	3	10/31/2013	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1
167	3184	2401.13	782.87	19	19	3	10/31/2013	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1
168	3606	2038.24	1567.76	19	19	3	10/31/2013	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1
169	6320	2796.49	3523.51	20	20	3	11/19/2013	0	9	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1
170	3656	2240.82	1415.18	20	20	3	11/19/2013	0	21	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1
171	3286	2134.42	1151.58	20	20	3	11/19/2013	0	33	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1
172	2920	2166.53	753.47	20	20	3	11/19/2013	0	45	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1
173	2640	2100.87	539.13	20	20	3	11/19/2013	0	57	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1
174	1597	1744.70	-147.70	20	20	3	11/19/2013	0	69	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1
181	1998	2796.49	-798.49	22	22	3	11/25/2013	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1
182	2253	2240.82	12.18	22	22	3	11/25/2013	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1
183	2093	2134.42	-41.42	22	22	3	11/25/2013	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1
184	1844	2166.53	-322.53	22	22	3	11/25/2013	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1
185	1865	2100.87	-235.87	22	22	3	11/25/2013	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1
186	1956	1744.70	211.30	22	22	3	11/25/2013	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1
175	2878	2927.91	-49.91	21	21	3	12/4/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
176	1761	2398.12	-637.12	21	21	3	12/4/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
177	2225	2334.86	-109.86	21	21	3	12/4/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
178	2234	2422.50	-188.50	21	21	3	12/4/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
179	2393	2401.13	-8.13	21	21	3	12/4/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
180	1948	2038.24	-90.24	21	21	3	12/4/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
55	3141	2090.44	1050.56	4R	4	1	12/12/2013	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
56	2708	1794.22	913.78	4R	4	1	12/12/2013	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
57	1576	1830.59	-254.59	4R	4	1	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
58	2768	1990.30	777.70	4R	4	1	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
59	2623	2067.27	555.73	4R	4	1	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
60	2685	1838.92	846.08	4R	4	1	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
37	3355	2199.69	1155.31	2R	2	1	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
38	2284	1895.69	388.31	2R	2	1	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
39	1912	1942.01	-30.01	2R	2	1	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
40	3203	2120.06	1082.94	2R	2	1	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
41	3568	2211.03	1356.97	2R	2	1	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
42	2231	1974.82	256.18	2R	2	1	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
205	3300	2796.49	503.51	26	26	3	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1
206	2672	2240.82	631.18	26	26	3	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1
207	3511	2134.42	1376.58	26	26	3	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1
208	2982	2166.53	815.47	26	26	3	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1
209	3109	2100.87	1008.13	26	26	3	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1
210	1846	1744.70	101.30	26	26	3	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1
103	843	2199.69	-1356.69	10R	10	1	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1
104	744	1895.69	-1151.69	10R	10	1	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1
105	1016	1942.01	-926.01	10R	10	1	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1
106	1712	2120.06	-408.06	10R	10	1	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1
107	682	2211.03	-1529.03	10R	10	1	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1
108	803	1974.82	-1171.82	10R	10	1	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1
91	2143	2090.44	52.56	9R	9	1	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
92	2080	1794.22	285.78	9R	9	1	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
93	1241	1830.59	-589.59	9R	9	1	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
94	2114	1990.30	123.70	9R	9	1	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
95	1111	2067.27	-956.27	9R	9	1	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
96	1055	1838.92	-783.92	9R	9	1	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1

187	3876	2927.91	948.09	23	23	3	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1
188	2854	2398.12	455.88	23	23	3	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1
189	2969	2334.86	634.14	23	23	3	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1
190	3376	2422.50	953.50	23	23	3	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1
191	3700	2401.13	1298.87	23	23	3	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1
192	2555	2038.24	516.76	23	23	3	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1
193	2449	2927.91	-478.91	24	24	3	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
194	1318	2398.12	-1080.12	24	24	3	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
195	2007	2334.86	-327.86	24	24	3	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
196	2005	2422.50	-417.50	24	24	3	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
197	2205	2401.13	-196.13	24	24	3	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
198	1588	2038.24	-450.24	24	24	3	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
199	3370	2927.91	442.09	25	25	3	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1
200	2108	2398.12	-290.12	25	25	3	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1
201	3100	2334.86	765.14	25	25	3	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1
202	2810	2422.50	387.50	25	25	3	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1
203	2249	2401.13	-152.13	25	25	3	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1
204	1761	2038.24	-277.24	25	25	3	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1
235	5423	2796.49	2626.51	A05	17	4	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
236	2095	2240.82	-145.82	A05	17	4	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
237	2208	2134.42	73.58	A05	17	4	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
238	1906	2166.53	-260.53	A05	17	4	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
239	1673	2100.87	-427.87	A05	17	4	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
240	1418	1744.70	-326.70	A05	17	4	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1
265	3244	1572.14	1671.86	A10	12	4	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1
266	2816	1397.38	1418.62	A10	12	4	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1
267	1898	1476.44	421.56	A10	12	4	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1
268	2490	1662.37	827.63	A10	12	4	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1
269	1827	1788.10	38.90	A10	12	4	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1
270	2106	1647.18	458.82	A10	12	4	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1
211	1823	2090.44	-267.44	A01	8	4	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
212	1837	1794.22	42.78	A01	8	4	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
213	1816	1830.59	-14.59	A01	8	4	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
214	1931	1990.30	-59.30	A01	8	4	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
215	1910	2067.27	-157.27	A01	8	4	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
216	1621	1838.92	-217.92	A01	8	4	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1
247	771	1501.57	-730.57	A07	18	4	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1
248	2786	1305.72	1480.28	A07	18	4	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1
249	1418	1349.69	68.31	A07	18	4	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1
250	1713	1486.72	226.28	A07	18	4	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1
251	1341	1564.50	-223.50	A07	18	4	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1
252	1494	1409.96	84.04	A07	18	4	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1
253	1670	2927.91	-1257.91	A08	11	4	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
254	1387	2398.12	-1011.12	A08	11	4	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
255	1518	2334.86	-816.86	A08	11	4	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
256	1498	2422.50	-924.50	A08	11	4	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
257	945	2401.13	-1456.13	A08	11	4	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
258	1084	2038.24	-954.24	A08	11	4	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1
223	2064	2857.49	-793.49	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1
224	2320	2402.73	-82.73	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1
225	1962	2401.60	-439.60	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1
226	2055	2558.07	-503.07	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1
227	1132	2602.99	-1470.99	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1
228	1944	2268.39	-324.39	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1
229	1789	1534.33	254.67	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1
230	1550	1400.07	149.93	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1
231	1716	1518.64	197.36	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1
232	1611	1755.40	-144.40	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1
233	1888	1938.42	-50.42	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1
234	1562	1833.18	-271.18	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1
241	518	1501.57	-983.57	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1
242	414	1305.72	-891.72	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1
243	1376	1349.69	26.31	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1
244	1611	1486.72	124.28	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1
245	1250	1564.50	-314.50	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1
246	1525	1409.96	115.04	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1
259	795	1572.14	-777.14	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1
260	1702	1397.38	304.62	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1
261	1343	1476.44	-133.44	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1
262	1487	1662.37	-175.37	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1
263	1473	1788.10	-315.10	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1
264	1349	1647.18	-298.18	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1
217	1938	1122.46	815.54	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1
218	1032	1045.49	-13.49	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1
219	1000	1157.56	-157.56	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1
220	1580	1365.79	214.21	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1
221	1411	1539.48	-128.48	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1
222	1069	1486.10	-417.10	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1

Last Slope

Variable	**Last Slope**					Tests	45
Transformation	**log(Last Slope)**					Panels	30
Table	SRS Preliminary Parameters						
Model File	150108 1747 Last Slope Dist3, Dist x Sever split-plot.rp						
Excluded Values	Tests 27, 28 not used in model creation; used as confirmation points.						
Reason for Exclusions							
Model	Baseline analysis	Exp(					
			2.39316377208557 + -0.185201911061676 * ((Distance from LSC - 39) / 30) +				
			Match(.:Sever, "0", 0.133271932004697, "1", -0.133271932004697, .:) + ((				
			.:Distance from LSC - 39) / 30) * Match(.:Sever,				
			0, -0.106188564068464,				
			1, 0.106188564068464,				
			) + ((.:Distance from LSC - 39) / 30) * (((.:Distance from LSC - 39) / 30) *				
			0.195326659484799) + ((.:Distance from LSC - 39) / 30) * (((.:Distance from LSC -				
			.:39) / 30) * (((.:Distance from LSC - 39) / 30) * 0.352644069684689))				
		)					

Table of Estimates	**Average of Pred Formula Last Slope**	**Distance from LSC**						
	Sever	**9**	**21**	**33**	**45**	**57**	**69**	10
	1	8.9	10.0	9.8	9.5	10.6	15.3	9.0
	0	14.3	14.8	13.3	11.9	12.2	16.2	
	Severed	98%	111%	108%	106%	117%	170%	
	Unsevered	158%	164%	148%	132%	135%	179%	

c	Last Slope	Pred Formula Last Slope	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree
1	8.8	8.86	-0.06	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
2	10.5	9.99	0.51	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
3	9.9	9.78	0.12	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
4	7.2	9.53	-2.33	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
5	7.9	10.58	-2.68	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
6	18.4	15.32	3.08	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
7	9.5	8.86	0.64	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
8	7.6	9.99	-2.39	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
9	9.2	9.78	-0.58	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
10	7.5	9.53	-2.03	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
11	8	10.58	-2.58	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
12	7.6	15.32	-7.72	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1
13	11.4	8.86	2.54	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
14	7.6	9.99	-2.39	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
15	10.7	9.78	0.92	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
16	15.4	9.53	5.87	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
17	13.4	10.58	2.82	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
18	23.5	15.32	8.18	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
19	6	8.86	-2.86	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
20	13.1	9.99	3.11	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
21	18	9.78	8.22	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
22	12.1	9.53	2.57	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
23	17.7	10.58	7.12	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
24	25.7	15.32	10.38	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
25	10.1	8.86	1.24	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
26	9	9.99	-0.99	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
27	9.1	9.78	-0.68	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
28	9.2	9.53	-0.33	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
29	16.7	10.58	6.12	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
30	17.9	15.32	2.58	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
31	6.6	8.86	-2.26	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
32	5.8	9.99	-4.19	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
33	5.9	9.78	-3.88	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
34	6.2	9.53	-3.33	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
35	6.3	10.58	-4.28	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
36	19.2	15.32	3.88	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
43	9.6	8.86	0.74	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
44	7.6	9.99	-2.39	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
45	10.2	9.78	0.42	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
46	7.9	9.53	-1.63	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
47	7	10.58	-3.58	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
48	20.6	15.32	5.28	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
61	7.8	8.86	-1.06	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
62	9.5	9.99	-0.49	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
63	9.4	9.78	-0.38	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
64	12.1	9.53	2.57	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
65	6.9	10.58	-3.68	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
66	7	15.32	-8.32	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
49	9.5	8.86	0.64	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
50	7.6	9.99	-2.39	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
51	8.5	9.78	-1.28	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
52	14.2	9.53	4.67	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
53	11	10.58	0.42	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
54	16.3	15.32	0.98	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1
67	7.4	8.86	-1.46	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
68	7.1	9.99	-2.89	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
69	7.7	9.78	-2.08	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
70	8.1	9.53	-1.43	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
71	7.6	10.58	-2.98	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
72	12.6	15.32	-2.72	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
73	7.2	8.86	-1.66	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
74	8.1	9.99	-1.89	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
75	7.6	9.78	-2.18	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
76	6.5	9.53	-3.03	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
77	5.9	10.58	-4.68	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
78	17.5	15.32	2.18	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0
79	7.4	8.86	-1.46	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
80	7.6	9.99	-2.39	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
81	8.8	9.78	-0.98	7	7	1	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
82	8	9.53	-1.53	7	7	1	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
83	6.1	10.58	-4.48	7	7	1	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
84	12.7	15.32	-2.62	7	7	1	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
85	10	8.86	1.14	8	8	1	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
86	10.6	9.99	0.61	8	8	1	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1
87	14.3	9.78	4.52	8	8	1	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1

Variance Components	Random Effect	Var Ratio	Var Compo	Std Error	95% Lower	95% Upper	Pct of Tota	Std Dev	
	Panel No	0.1097201	**0.007672**	0.015671	-0.023043	0.038387	**6.1%**	**0.087589954**	0.01
	Test No	0.6872973	**0.048058**	0.018331	0.012113	0.083987	**38.2%**	**0.219222262**	
	Residual		**0.069924**	0.006713	0.058429	0.085199	**55.6%**	**0.264431087**	
	Total		**0.125654**	0.016574	0.098584	0.166999	**100.0%**	**0.354477362**	

Variance Components			
	Random Effect	**Variance Component**	**Component's Percent Share of T**	**Standard Deviation of Effect's Component (transformed units)**
	Panel-to-Panel	0.007672	6.1%	0.0875900
	Test-to-Test	0.0480584	38.2%	0.2192223
	Within-Test	0.0699238	55.6%	0.2644311
	Total Variability Not Exp	0.1256542	100.0%	0.3544774

88	9.3	9.53	-0.23	8	8	1	5/16/2013	0	45	0.3	10 Fabric	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
89	10	10.58	-0.58	8	8	1	5/16/2013	0	57	0.3	10 Fabric	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
90	9.6	15.32	-5.72	8	8	1	5/16/2013	0	69	0.3	10 Fabric	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
97	9.6	8.86	0.74	9	9	1	5/17/2013	0	9	0.3	22 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
98	10.6	9.99	0.61	9	9	1	5/17/2013	0	21	0.3	22 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
99	14.5	9.78	4.72	9	9	1	5/17/2013	0	33	0.3	22 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
100	8.5	9.53	-1.03	9	9	1	5/17/2013	0	45	0.3	22 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
101	8.9	10.58	-1.68	9	9	1	5/17/2013	0	57	0.3	22 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
102	19.9	15.32	4.58	9	9	1	5/17/2013	0	69	0.3	22 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
109	8.7	8.86	-0.16	10	10	1	5/29/2013	0	9	0.2	10 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1	Y	1
110	9	9.99	-0.99	10	10	1	5/29/2013	0	21	0.2	10 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1	Y	1
111	8.3	9.78	-1.48	10	10	1	5/29/2013	0	33	0.2	10 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1	Y	1
112	10.8	9.53	1.27	10	10	1	5/29/2013	0	45	0.2	10 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1	Y	1
113	8.5	10.58	-2.08	10	10	1	5/29/2013	0	57	0.2	10 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1	Y	1
114	13.6	15.32	-1.72	10	10	1	5/29/2013	0	69	0.2	10 Tape	Monolithic	Monolithic - 0. Aluminum	0	0	1	Y	1
115	10	14.30	-4.30	11	11	2	5/31/2013	0	9	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	0		1
116	7.7	14.81	-7.11	11	11	2	5/31/2013	0	21	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	0		1
117	15.3	13.33	1.97	11	11	2	5/31/2013	0	33	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	0		1
118	8.4	11.93	-3.53	11	11	2	5/31/2013	0	45	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	0		1
119	7	12.16	-5.16	11	11	2	5/31/2013	0	57	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	0		1
120	20.1	16.17	3.93	11	11	2	5/31/2013	0	69	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	0		1
121	7.8	8.86	-1.06	12	14	2	6/28/2013	0	9	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
122	10.9	9.99	0.91	12	14	2	6/28/2013	0	21	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
123	10.6	9.78	0.82	12	14	2	6/28/2013	0	33	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
124	10.7	9.53	1.17	12	14	2	6/28/2013	0	45	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
125	10	10.58	-0.58	12	14	2	6/28/2013	0	57	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
126	15.2	15.32	-0.12	12	14	2	6/28/2013	0	69	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
127	7.6	8.86	-1.26	13	13	2	7/16/2013	0	9	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
128	12	9.99	2.01	13	13	2	7/16/2013	0	21	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
129	12.7	9.78	2.92	13	13	2	7/16/2013	0	33	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
130	8.3	9.53	-1.23	13	13	2	7/16/2013	0	45	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
131	9.9	10.58	-0.68	13	13	2	7/16/2013	0	57	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
132	13.9	15.32	-1.42	13	13	2	7/16/2013	0	69	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
133	6.5	8.86	-2.36	14	12	2	7/17/2013	0	9	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
134	10.9	9.99	0.91	14	12	2	7/17/2013	0	21	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
135	9.3	9.78	-0.48	14	12	2	7/17/2013	0	33	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
136	10.2	9.53	0.67	14	12	2	7/17/2013	0	45	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
137	10.6	10.58	0.02	14	12	2	7/17/2013	0	57	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
138	16.8	15.32	1.48	14	12	2	7/17/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
139	6.2	8.86	-2.66	15	16	2	7/18/2013	0	9	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
140	6.7	9.99	-3.29	15	16	2	7/18/2013	0	21	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
141	9.8	9.78	0.02	15	16	2	7/18/2013	0	33	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
142	8.5	9.53	-1.03	15	16	2	7/18/2013	0	45	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
143	8.4	10.58	-2.18	15	16	2	7/18/2013	0	57	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
144	15.7	15.32	0.38	15	16	2	7/18/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
145	9.7	8.86	0.84	16	18	2	7/23/2013	0	9	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
146	12.1	9.99	2.11	16	18	2	7/23/2013	0	21	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
147	13.2	9.78	3.42	16	18	2	7/23/2013	0	33	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
148	11.2	9.53	1.67	16	18	2	7/23/2013	0	45	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
149	11.8	10.58	1.22	16	18	2	7/23/2013	0	57	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
150	15.6	15.32	0.28	16	18	2	7/23/2013	0	69	1	22 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
151	8.6	8.86	-0.26	17	15	2	8/9/2013	0	9	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
152	9.2	9.99	-0.79	17	15	2	8/9/2013	0	21	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
153	13.6	9.78	3.82	17	15	2	8/9/2013	0	33	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
154	8.7	9.53	-0.83	17	15	2	8/9/2013	0	45	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
155	9.2	10.58	-1.38	17	15	2	8/9/2013	0	57	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
156	15.6	15.32	0.28	17	15	2	8/9/2013	0	69	1	10 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
157	9.7	8.86	0.84	18	17	2	8/19/2013	0	9	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
158	10.1	9.99	0.11	18	17	2	8/19/2013	0	21	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
159	11.8	9.78	2.02	18	17	2	8/19/2013	0	33	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
160	11.2	9.53	1.67	18	17	2	8/19/2013	0	45	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
161	15.8	10.58	5.22	18	17	2	8/19/2013	0	57	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
162	13.3	15.32	-2.02	18	17	2	8/19/2013	0	69	1	10 Tape	Rohacell	Rohacell - 1 Aluminum	0	0	1		1
163	20.9	14.30	6.60	19	19	3	10/31/2013	0	9	1	10 Fabric	Al Honey	Al Honey - 1 Fabric Compc	0	0	0		1
164	19.7	14.81	4.89	19	19	3	10/31/2013	0	21	1	10 Fabric	Al Honey	Al Honey - 1 Fabric Compc	0	0	0		1
165	18.7	13.33	5.37	19	19	3	10/31/2013	0	33	1	10 Fabric	Al Honey	Al Honey - 1 Fabric Compc	0	0	0		1
166	10	11.93	-1.93	19	19	3	10/31/2013	0	45	1	10 Fabric	Al Honey	Al Honey - 1 Fabric Compc	0	0	0		1
167	22.6	12.16	10.44	19	19	3	10/31/2013	0	57	1	10 Fabric	Al Honey	Al Honey - 1 Fabric Compc	0	0	0		1
168	8.1	16.17	-8.07	19	19	3	10/31/2013	0	69	1	10 Fabric	Al Honey	Al Honey - 1 Fabric Compc	0	0	0		1
169	8.9	8.86	0.04	20	20	3	11/19/2013	0	9	1	22 Fabric	Rohacell	Rohacell - 1 Fabric Compc	0	0	1		1
170	11.3	9.99	1.31	20	20	3	11/19/2013	0	21	1	22 Fabric	Rohacell	Rohacell - 1 Fabric Compc	0	0	1		1
171	13.6	9.78	3.82	20	20	3	11/19/2013	0	33	1	22 Fabric	Rohacell	Rohacell - 1 Fabric Compc	0	0	1		1
172	13.8	9.53	4.27	20	20	3	11/19/2013	0	45	1	22 Fabric	Rohacell	Rohacell - 1 Fabric Compc	0	0	1		1
173	21.5	10.58	10.92	20	20	3	11/19/2013	0	57	1	22 Fabric	Rohacell	Rohacell - 1 Fabric Compc	0	0	1		1
174	19.5	15.32	4.18	20	20	3	11/19/2013	0	69	1	22 Fabric	Rohacell	Rohacell - 1 Fabric Compc	0	0	1		1
181	17.1	14.30	2.80	22	22	3	11/25/2013	0	9	1	10 Fabric	Rohacell	Rohacell - 1 Aluminum	0	0	0		1
182	15	14.81	0.19	22	22	3	11/25/2013	0	21	1	10 Fabric	Rohacell	Rohacell - 1 Aluminum	0	0	0		1
183	17	13.33	3.67	22	22	3	11/25/2013	0	33	1	10 Fabric	Rohacell	Rohacell - 1 Aluminum	0	0	0		1
184	19.6	11.93	7.67	22	22	3	11/25/2013	0	45	1	10 Fabric	Rohacell	Rohacell - 1 Aluminum	0	0	0		1
185	21.4	12.16	9.24	22	22	3	11/25/2013	0	57	1	10 Fabric	Rohacell	Rohacell - 1 Aluminum	0	0	0		1
186	16.2	16.17	0.03	22	22	3	11/25/2013	0	69	1	10 Fabric	Rohacell	Rohacell - 1 Aluminum	0	0	0		1
175	8.8	8.86	-0.06	21	21	3	12/4/2013	0	9	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
176	9.2	9.99	-0.79	21	21	3	12/4/2013	0	21	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
177	13.7	9.78	3.92	21	21	3	12/4/2013	0	33	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
178	11.5	9.53	1.97	21	21	3	12/4/2013	0	45	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
179	10.8	10.58	0.22	21	21	3	12/4/2013	0	57	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
180	15.2	15.32	-0.12	21	21	3	12/4/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1 Aluminum	0	0	1		1
55	7.2	8.86	-1.66	4R	4	1	12/12/2013	1	9	0.3	22 Fabric	Monolithic	Monolithic - 0. Aluminum	0	0	1		1
56	7.9	9.99	-2.09	4R	4	1	12/12/2013	1	21	0.3	22 Fabric	Monolithic	Monolithic - 0. Aluminum	0	0	1		1

57	11.6	9.78	1.82	4R	4	1	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
58	8.9	9.53	-0.63	4R	4	1	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
59	7.3	10.58	-3.28	4R	4	1	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
60	11.3	15.32	-4.02	4R	4	1	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
37	28.3	8.86	19.44	2R	2	1	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
38	8.9	9.99	-1.09	2R	2	1	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
39	9.5	9.78	-0.28	2R	2	1	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
40	17	9.53	7.47	2R	2	1	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
41	5.8	10.58	-4.78	2R	2	1	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
42	15.7	15.32	0.38	2R	2	1	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
205	12.8	8.86	3.94	26	26	3	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1		1		
206	8.2	9.99	-1.79	26	26	3	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1		1		
207	6.4	9.78	-3.38	26	26	3	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1		1		
208	7.9	9.53	-1.63	26	26	3	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1		1		
209	5.8	10.58	-4.78	26	26	3	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1		1		
210	14.5	15.32	-0.82	26	26	3	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1		1		
103	15.4	14.30	1.10	10R	10	1	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0		1		
104	15.7	14.81	0.89	10R	10	1	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0		1		
105	13.7	13.33	0.37	10R	10	1	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0		1		
106	8.6	11.93	-3.33	10R	10	1	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0		1		
107	16.1	12.16	3.94	10R	10	1	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0		1		
108	20.1	16.17	3.93	10R	10	1	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0		1		
91	7.1	8.86	-1.76	9R	9	1	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
92	8.8	9.99	-1.19	9R	9	1	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
93	11.9	9.78	2.12	9R	9	1	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
94	8.3	9.53	-1.23	9R	9	1	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
95	12.3	10.58	1.72	9R	9	1	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
96	13.6	15.32	-1.72	9R	9	1	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
187	10.8	14.30	-3.50	23	23	3	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1		
188	15.9	14.81	1.09	23	23	3	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1		
189	13.6	13.33	0.27	23	23	3	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1		
190	10.1	11.93	-1.83	23	23	3	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1		
191	10.1	12.16	-2.06	23	23	3	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1		
192	15.1	16.17	-1.07	23	23	3	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1		
193	7.4	8.86	-1.46	24	24	3	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
194	11.2	9.99	1.21	24	24	3	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
195	10.9	9.78	1.12	24	24	3	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
196	12	9.53	2.47	24	24	3	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
197	10.4	10.58	-0.18	24	24	3	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
198	18.7	15.32	3.38	24	24	3	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
199	10.8	8.86	1.94	25	25	3	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1		1		
200	10	9.99	0.01	25	25	3	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1		1		
201	6.4	9.78	-3.38	25	25	3	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1		1		
202	7.4	9.53	-2.13	25	25	3	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1		1		
203	8.6	10.58	-1.98	25	25	3	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1		1		
204	17.5	15.32	2.18	25	25	3	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1		1		
235	6.5	8.86	-2.36	A05	17	4	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1		
236	12.7	9.99	2.71	A05	17	4	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1		
237	11	9.78	1.22	A05	17	4	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1		
238	14.1	9.53	4.57	A05	17	4	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1		
239	14.8	10.58	4.22	A05	17	4	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1		
240	22.2	15.32	6.88	A05	17	4	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1		
265	5.8	8.86	-3.06	A10	12	4	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1		
266	7.8	9.99	-2.19	A10	12	4	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1		
267	7.9	9.78	-1.88	A10	12	4	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1		
268	8.1	9.53	-1.43	A10	12	4	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1		
269	9.4	10.58	-1.18	A10	12	4	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1		
270	21	15.32	5.68	A10	12	4	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1		
211	8.8	8.86	-0.06	A01	8	4	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
212	12.4	9.99	2.41	A01	8	4	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
213	14.1	9.78	4.32	A01	8	4	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
214	11.9	9.53	2.37	A01	8	4	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
215	10.5	10.58	-0.08	A01	8	4	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
216	14.9	15.32	-0.42	A01	8	4	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1		
247	13.6	8.86	4.74	A07	18	4	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1		
248	6.3	9.99	-3.69	A07	18	4	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1		
249	11.5	9.78	1.72	A07	18	4	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1		
250	7.6	9.53	-1.93	A07	18	4	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1		
251	11.5	10.58	0.92	A07	18	4	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1		
252	20.9	15.32	5.58	A07	18	4	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1		
253	10.8	8.86	1.94	A08	11	4	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
254	10.5	9.99	0.51	A08	11	4	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
255	10.4	9.78	0.62	A08	11	4	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
256	8.6	9.53	-0.93	A08	11	4	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
257	20.3	10.58	9.72	A08	11	4	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
258	15.1	15.32	-0.22	A08	11	4	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1		
223	6.5	8.86	-2.36	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1		1		
224	7.5	9.99	-2.49	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1		1		

225	9.6	9.78	-0.18	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1		
226	8.4	9.53	-1.13	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1		
227	17.2	10.58	6.62	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1		
228	13.4	15.32	-1.92	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1		
229	13.7	8.86	4.84	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1		
230	14	9.99	4.01	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1		
231	10.3	9.78	0.52	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1		
232	12.6	9.53	3.07	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1		
233	8.9	10.58	-1.68	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1		
234	11	15.32	-4.32	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1		
241	14.7	8.86	5.84	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		
242	18.5	9.99	8.51	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		
243	6.7	9.78	-3.08	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		
244	6.9	9.53	-2.63	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		
245	14.5	10.58	3.92	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		
246	19	15.32	3.68	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1		
259	15.2	8.86	6.34	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		
260	8.4	9.99	-1.59	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		
261	9.1	9.78	-0.68	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		
262	9.7	9.53	0.17	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		
263	13	10.58	2.42	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		
264	22.3	15.32	6.98	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1		
217	9.3	8.86	0.44	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1		
218	14.2	9.99	4.21	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1		
219	15.3	9.78	5.52	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1		
220	11.1	9.53	1.57	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1		
221	10.9	10.58	0.32	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1		
222	14.6	15.32	-0.72	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1		

Max SRS Accel

Variable	**Maximum SRS Acceleration**	Panels	30
Transformation	**log(Max SRS Accel)**	Tests	45
Table	SRS Preliminary Parameters		
Model File	150102 1652 All Data Max Plat - Max SRS Accel without Panel effect split-plot.jrp		
Excluded Values	Tests 27, 28 not used in model creation; used as confirmation points.		
Reason for Exclusions			

Model Analysis without Panel rand Exp(

9.12264279357447 + -0.175906636393387 * ((:Distance from LSC - 39) / 30) +
Match(:Name("Type - Thick"),
Monolithic - 0.2, 0.239841649170964,
Monolithic - 0.3, -0.0259617976444534,
Al Honey - 1, -0.114859502597656,
Rohacell - 1, -0.158934902223547,
Aluminum - 0.187, 0.059914553294692,
.
) + 0.0684974241978297 * ((:LSC Core Load - 16) / 6) + ((:Distance from LSC - 39
) / 30) * Match(:Name("Type - Thick"),
Monolithic - 0.2, 0.0946234438399386,
Monolithic - 0.3, 0.0857940847197687,
Al Honey - 1, -0.0900791110938465,
Rohacell - 1, -0.155745103509068,
Aluminum - 0.187, 0.0654066860432069,
.
) + ((:Distance from LSC - 39) / 30) * (((:LSC Core Load - 16) / 6) *
0.0323247729199656) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC
- 39) / 30) * 0.186658985688534)
)

Table of Estimates

Average of Predicted Max		**Distance from LSC**					
Type - Thick	**LSC Core Load**	**9**	**21**	**33**	**45**	**57**	**69**
Al Honey - 1	10	12385.2	9754.4	8155.2	7237.9	6819.2	6820.1
Al Honey - 1	22	13314.4	10760.9	9232.4	8408.6	8129.7	8343.8
Aluminum - 0.187	10	12626.4	10582.4	9415.3	8892.5	8915.6	9489.1
Aluminum - 0.187	22	13573.7	11674.4	10659.0	10330.8	10629.1	11609.0
Monolithic - 0.2	10	14680.2	12448.4	11205.7	10707.8	10861.9	11696.4
Monolithic - 0.2	22	15781.6	13733.0	12685.8	12439.8	12949.4	14309.6
Monolithic - 0.3	10	11353.5	9593.5	8605.3	8194.0	8282.7	8887.5
Monolithic - 0.3	22	12205.3	10583.5	9742.0	9519.4	9874.4	10873.1
Rohacell - 1	10	12655.5	9708.9	7906.8	6835.5	6273.1	6111.3
Rohacell - 1	22	13605.0	10710.7	8951.1	7941.1	7478.6	7476.6

10" Aluminum 10 gpf
12413.58

Al Honey - 1	10	100%	79%	66%	58%	55%	55%
Al Honey - 1	22	107%	87%	74%	68%	65%	67%
Aluminum - 0.187	10	102%	85%	76%	72%	72%	76%
Aluminum - 0.187	22	109%	94%	86%	83%	86%	94%
Monolithic - 0.2	10	118%	100%	90%	86%	88%	94%
Monolithic - 0.2	22	127%	111%	102%	100%	104%	115%
Monolithic - 0.3	10	91%	77%	69%	66%	67%	72%
Monolithic - 0.3	22	98%	85%	78%	77%	80%	88%
Rohacell - 1	10	102%	78%	64%	55%	51%	49%
Rohacell - 1	22	110%	86%	72%	64%	60%	60%

Row Labels
6111.288661
6273.074061
6819.19555
6820.133545
6835.476928
7237.927027
7476.629249
7478.641002
7906.750199
7941.09363
8129.716778
8155.226836
8194.041037
8282.651386
8343.83921
8408.638756
8605.332912
8887.536961
8892.480736
8915.64006
8951.147975
9232.445739
9415.299267
9489.053832
9519.401173
9593.520497
9708.854758
9742.006049
9754.35776
9874.421322
10330.81128
10582.44729
10583.46675
10629.05852
10658.96036
10707.84345
10710.70225
10760.90066
10861.93196
10873.12717
11205.66767
11353.48339
11609.03066
11674.43996
11696.41939
12205.29539
12385.17378
12439.80315
12448.42058
12626.38097
12655.4846
12685.81743
12949.39114
13314.38988
13573.694
13604.98118
13732.96126
14309.55011
14680.18596
15781.58878
(blank)
Grand Total

c	Max SRS Accel	Predicted Max SRS Accel	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree	Aluminum LSC Plate
1	17525	12626.38	4898.62	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
2	11295	10582.45	712.55	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
3	12561	9415.30	3145.70	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
4	10377	8892.48	1484.52	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
5	11293	8915.64	2377.36	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
6	13285	9489.05	3795.95	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
7	15170	13573.69	1596.31	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
8	14814	11674.44	3139.56	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
9	13014	10658.96	2355.04	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
10	15470	10330.81	5139.19	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
11	14643	10629.06	4013.94	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
12	18641	11609.03	7031.97	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	0	1		1	1
13	9605	14680.19	-5075.19	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
14	15179	12448.42	2730.58	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
15	8231	11205.67	-2974.67	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
16	8496	10707.84	-2211.84	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
17	11554	10861.93	692.07	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
18	8579	11696.42	-3117.42	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
19	13601	14680.19	-1079.19	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
20	10268	12448.42	-2180.42	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
21	10480	11205.67	-725.67	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
22	7299	10707.84	-3408.84	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
23	7107	10861.93	-3754.93	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
24	6856	11696.42	-4840.42	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
25	12478	14680.19	-2202.19	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
26	15120	12448.42	2671.58	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
27	8685	11205.67	-2520.67	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
28	8786	10707.84	-1921.84	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
29	10497	10861.93	-364.93	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
30	9672	11696.42	-2024.42	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
31	13982	14680.19	-698.19	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
32	12754	12448.42	305.58	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
33	11777	11205.67	571.33	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
34	10551	10707.84	-156.84	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
35	11626	10861.93	764.07	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
36	12599	11696.42	902.58	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
43	14368	14680.19	-312.19	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
44	11514	12448.42	-934.42	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
45	12570	11205.67	1364.33	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
46	11525	10707.84	817.16	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
47	12773	10861.93	1911.07	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
48	12181	11696.42	484.58	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
61	11005	12205.30	-1200.30	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
62	8270	10583.47	-2313.47	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
63	8448	9742.01	-1294.01	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
64	9696	9519.40	176.60	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
65	9607	9874.42	-267.42	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
66	9069	10873.13	-1804.13	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
49	11499	11353.48	145.52	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
50	8646	9593.52	-947.52	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
51	9003	8605.33	397.67	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
52	8228	8194.04	33.96	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
53	7945	8282.65	-337.65	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
54	9363	8887.54	475.46	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
67	13539	15781.59	-2242.59	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
68	16746	13732.96	3013.04	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
69	16265	12685.82	3579.18	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
70	13872	12439.80	1432.20	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
71	15586	12949.39	2636.61	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
72	17671	14309.55	3361.45	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
73	18254	15781.59	2472.41	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
74	15930	13732.96	2197.04	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
75	11264	12685.82	-1421.82	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
76	10721	12439.80	-1718.80	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
77	13675	12949.39	725.61	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
78	13618	14309.55	-691.55	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
79	20354	15781.59	4572.41	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
80	15695	13732.96	1962.04	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
81	11437	12685.82	-1248.82	7	7	1	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
82	10996	12439.80	-1443.80	7	7	1	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
83	13602	12949.39	652.61	7	7	1	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
84	16139	14309.55	1829.45	7	7	1	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
85	15759	11353.48	4405.52	8	8	1	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
86	14657	9593.52	5063.48	8	8	1	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
87	11130	8605.33	2524.67	8	8	1	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1

Variance Components	Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev	
	Panel No								0.01
	Test No	2.150112	**0.0573286**	0.0139952	0.0298986	0.0847587	**6825.5%**	**0.2394339**	
	Residual		**0.0266631**	0.0025539	0.0222886	0.0324722	**3174.5%**	**0.1632884**	
	Total		**0.0839917**	0.0141497	0.0619319	0.1204256	**10000.0%**	**0.2898132**	

Alternative Model	Model including Panel rand; Exp(
	Model does not converge

9.126104676181 32 + -0.175906636393387 * ((Distance from LSC - 39) / 30) + Match(.Name("Type - Thick"),
Monolithic - 0.2, 0.253322876785093,
Monolithic - 0.3, -0.0585021378695135,
Al Honey - 1, -0.117723733085097,
Rohacell - 1, -0.12708844064221,
Aluminum - 0.187, 0.0499914348117271,
,
) + 0.0814198956974507 * ((LSC Core Load - 16) / 6) + ((Distance from LSC - 39) / 30) * Match(.Name("Type - Thick"),
Monolithic - 0.2, 0.0946234438399386,
Monolithic - 0.3, 0.0857940847197687,
Al Honey - 1, -0.0900791110938465,
Rohacell - 1, -0.155745103509068,
Aluminum - 0.187, 0.0654096860432069,
,
) + ((Distance from LSC - 39) / 30) * ((((LSC Core Load - 16) / 6) * 0.0323247729199656) + ((Distance from LSC - 39) / 30) * (((Distance from LSC - 39) / 30) * 0.186688985669625)
)

Variance Components			
Random Effect	**Variance Component**	**Component's Percent Share of Total Variance**	**Standard Deviation of Effect's Component (transformed units)**
Panel-to-Panel			
Test-to-Test	0.0573286	68.3%	0.2394339
Within-Test	0.0266631	31.7%	0.1632884
Total Variability Not Exp	0.0839917	100.0%	0.2898132

88	9468	8194.04	1273.96	8	8	1	5/16/2013	0	45	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
89	10158	8282.65	1875.35	8	8	1	5/16/2013	0	57	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1			
90	10309	8887.54	1421.46	8	8	1	5/16/2013	0	69	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
97	9877	12205.30	-2328.30	9	9	1	5/17/2013	0	9	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
98	9279	10583.47	-1304.47	9	9	1	5/17/2013	0	21	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
99	10512	9742.01	769.99	9	9	1	5/17/2013	0	33	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
100	10884	9519.40	1364.60	9	9	1	5/17/2013	0	45	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
101	9542	9874.42	-332.42	9	9	1	5/17/2013	0	57	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
102	13631	10873.13	2757.87	9	9	1	5/17/2013	0	69	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1			
109	22897	14680.19	8216.81	10	10	1	5/29/2013	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1			
110	18794	12448.42	6345.58	10	10	1	5/29/2013	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1			
111	18405	11205.67	7199.33	10	10	1	5/29/2013	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1			
112	12351	10707.84	1643.16	10	10	1	5/29/2013	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1			
113	11920	10861.93	1058.07	10	10	1	5/29/2013	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1			
114	14080	11696.42	2383.58	10	10	1	5/29/2013	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1			
115	17035	12385.17	4649.83	11	11	2	5/31/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1			
116	11602	9754.36	1847.64	11	11	2	5/31/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1			
117	10434	8155.23	2278.77	11	11	2	5/31/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1			
118	8908	7237.93	1670.07	11	11	2	5/31/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1			
119	8097	6819.20	1277.80	11	11	2	5/31/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1			
120	8439	6820.13	1618.87	11	11	2	5/31/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1			
121	14557	13604.98	952.02	12	14	2	6/28/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
122	9624	10710.70	-1086.70	12	14	2	6/28/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
123	8259	8951.15	-692.15	12	14	2	6/28/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
124	6863	7941.09	-1078.09	12	14	2	6/28/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
125	8240	7478.64	761.36	12	14	2	6/28/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
126	7624	7476.63	147.37	12	14	2	6/28/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
127	11810	12655.48	-845.48	13	13	2	7/16/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
128	7534	9708.85	-2174.85	13	13	2	7/16/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
129	6283	7906.75	-1623.75	13	13	2	7/16/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
130	4464	6835.48	-2371.48	13	13	2	7/16/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
131	5078	6273.07	-1195.07	13	13	2	7/16/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
132	5637	6111.29	-474.29	13	13	2	7/16/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
133	13688	13314.39	273.61	14	12	2	7/17/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
134	11460	10760.90	699.10	14	12	2	7/17/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
135	13169	9232.45	3936.55	14	12	2	7/17/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
136	8454	8408.64	45.36	14	12	2	7/17/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
137	9768	8129.72	1638.28	14	12	2	7/17/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
138	11453	8343.84	3109.16	14	12	2	7/17/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
139	16318	13314.39	3003.61	15	16	2	7/18/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
140	11694	10760.90	933.10	15	16	2	7/18/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
141	10038	9232.45	805.55	15	16	2	7/18/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
142	8181	8408.64	-227.64	15	16	2	7/18/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
143	8493	8129.72	363.28	15	16	2	7/18/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
144	9479	8343.84	1135.16	15	16	2	7/18/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
145	14050	13604.98	445.02	16	18	2	7/23/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
146	10589	10710.70	-121.70	16	18	2	7/23/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
147	9001	8951.15	49.85	16	18	2	7/23/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
148	7201	7941.09	-740.09	16	18	2	7/23/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
149	9232	7478.64	1753.36	16	18	2	7/23/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
150	9354	7476.63	1877.37	16	18	2	7/23/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
151	14466	12385.17	2080.83	17	15	2	8/9/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
152	11093	9754.36	1338.64	17	15	2	8/9/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
153	8921	8155.23	765.77	17	15	2	8/9/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
154	9639	7237.93	2401.07	17	15	2	8/9/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
155	9565	6819.20	2745.80	17	15	2	8/9/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
156	8747	6820.13	1926.87	17	15	2	8/9/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1			
157	10395	12655.48	-2260.48	18	17	2	8/19/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
158	6624	9708.85	-3084.85	18	17	2	8/19/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
159	5766	7906.75	-2140.75	18	17	2	8/19/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
160	4782	6835.48	-2053.48	18	17	2	8/19/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
161	5308	6273.07	-965.07	18	17	2	8/19/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
162	4303	6111.29	-1808.29	18	17	2	8/19/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1			
163	10742	12385.17	-1643.17	19	19	3	10/31/2013	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0			
164	8435	9754.36	-1319.36	19	19	3	10/31/2013	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0			
165	7950	8155.23	-205.23	19	19	3	10/31/2013	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0			
166	7160	7237.93	-77.93	19	19	3	10/31/2013	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0			
167	6428	6819.20	-391.20	19	19	3	10/31/2013	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0			
168	6138	6820.13	-682.13	19	19	3	10/31/2013	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0			
169	32442	13604.98	18837.02	20	20	3	11/19/2013	0	9	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0			
170	17874	10710.70	7163.30	20	20	3	11/19/2013	0	21	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0			
171	14719	8951.15	5767.85	20	20	3	11/19/2013	0	33	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0			
172	8905	7941.09	963.91	20	20	3	11/19/2013	0	45	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0			
173	7233	7478.64	-245.64	20	20	3	11/19/2013	0	57	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0			
174	6167	7476.63	-1309.63	20	20	3	11/19/2013	0	69	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0			
181	10707	12655.48	-1948.48	22	22	3	11/25/2013	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1			

182	8661	9708.85	-1047.85	22	22	3	11/25/2013	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
183	6811	7906.75	-1095.75	22	22	3	11/25/2013	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
184	5007	6835.48	-1828.48	22	22	3	11/25/2013	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
185	4924	6273.07	-1349.07	22	22	3	11/25/2013	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
186	5014	6111.29	-1097.29	22	22	3	11/25/2013	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
175	15533	13314.39	2218.61	21	21	3	12/4/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
176	10938	10760.90	177.10	21	21	3	12/4/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
177	10912	9232.45	1679.55	21	21	3	12/4/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
178	7992	8408.64	-416.64	21	21	3	12/4/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
179	8322	8129.72	192.28	21	21	3	12/4/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
180	10013	8343.84	1669.16	21	21	3	12/4/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
55	12188	12205.30	-17.30	4R	4	1	12/12/2013	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
56	12597	10583.47	2013.53	4R	4	1	12/12/2013	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
57	12111	9742.01	2368.99	4R	4	1	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
58	11301	9519.40	1781.60	4R	4	1	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
59	11004	9874.42	1129.58	4R	4	1	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
60	15187	10873.13	4313.87	4R	4	1	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
37	14498	15781.59	-1283.59	2R	2	1	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
38	15403	13732.96	1670.04	2R	2	1	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
39	13801	12685.82	1115.18	2R	2	1	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
40	14176	12439.80	1736.20	2R	2	1	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
41	14959	12949.39	2009.61	2R	2	1	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
42	15046	14309.55	736.45	2R	2	1	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
205	7476	13604.98	-6128.98	26	26	3	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
206	6938	10710.70	-3772.70	26	26	3	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
207	6832	8951.15	-2119.15	26	26	3	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
208	5689	7941.09	-2252.09	26	26	3	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
209	4816	7478.64	-2662.64	26	26	3	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
210	5860	7476.63	-1616.63	26	26	3	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
103	9328	14680.19	-5352.19	10R	10	1	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1	1
104	9291	12448.42	-3157.42	10R	10	1	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1	1
105	12158	11205.67	952.33	10R	10	1	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1	1
106	9621	10707.84	-1086.84	10R	10	1	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1	1
107	10153	10861.93	-708.93	10R	10	1	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1	1
108	16717	11696.42	5020.58	10R	10	1	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	0	1	1
91	10921	12205.30	-1284.30	9R	9	1	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
92	15926	10583.47	5342.53	9R	9	1	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
93	13369	9742.01	3626.99	9R	9	1	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
94	10124	9519.40	604.60	9R	9	1	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
95	12541	9874.42	2666.58	9R	9	1	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
96	13214	10873.13	2340.87	9R	9	1	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
187	13582	12385.17	1196.83	23	23	3	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
188	11327	9754.36	1572.64	23	23	3	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
189	8538	8155.23	382.77	23	23	3	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
190	8628	7237.93	1390.07	23	23	3	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
191	7586	6819.20	766.80	23	23	3	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
192	9024	6820.13	2203.87	23	23	3	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
193	10702	13314.39	-2612.39	24	24	3	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
194	10450	10760.90	-310.90	24	24	3	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
195	8200	9232.45	-1032.45	24	24	3	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
196	7486	8408.64	-922.64	24	24	3	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
197	8366	8129.72	236.28	24	24	3	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
198	7389	8343.84	-954.84	24	24	3	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
199	6571	13314.39	-6743.39	25	25	3	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	1	1	0
200	4937	10760.90	-5823.90	25	25	3	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	1	1	0
201	4457	9232.45	-4775.45	25	25	3	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	1	1	0
202	3925	8408.64	-4483.64	25	25	3	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	1	1	0
203	3365	8129.72	-4764.72	25	25	3	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	1	1	0
204	4136	8343.84	-4207.84	25	25	3	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	1	1	0
235	28490	13604.98	14885.02	A05	17	4	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
236	19259	10710.70	8548.30	A05	17	4	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
237	14063	8951.15	5111.85	A05	17	4	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
238	11892	7941.09	3950.91	A05	17	4	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
239	10860	7478.64	3381.36	A05	17	4	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
240	9224	7476.63	1747.37	A05	17	4	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
265	15731	13314.39	2416.61	A10	12	4	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
266	17244	10760.90	6483.10	A10	12	4	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
267	12947	9232.45	3714.55	A10	12	4	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
268	12470	8408.64	4061.36	A10	12	4	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
269	12688	8129.72	4558.28	A10	12	4	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
270	10113	8343.84	1769.16	A10	12	4	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
211	8801	12205.30	-3404.30	A01	8	4	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
212	12045	10583.47	1461.53	A01	8	4	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
213	9947	9742.01	204.99	A01	8	4	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
214	7338	9519.40	-2181.40	A01	8	4	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1
215	8401	9874.42	-1473.42	A01	8	4	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1

216	8715	10873.13	-2158.13	A01	8	4	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1	1	1	1
247	12017	13604.98	-1587.98	A07	18	4	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1	1
248	12631	10710.70	1920.30	A07	18	4	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1	1
249	12103	8951.15	3151.85	A07	18	4	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1	1
250	9114	7941.09	1172.91	A07	18	4	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1	1
251	9785	7478.64	2306.36	A07	18	4	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1	1
252	10422	7476.63	2945.37	A07	18	4	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1	1
253	12610	13314.39	-704.39	A08	11	4	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1	1
254	8942	10760.90	-1818.90	A08	11	4	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1	1
255	7914	9232.45	-1318.45	A08	11	4	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1	1
256	6133	8408.64	-2275.64	A08	11	4	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1	1
257	7057	8129.72	-1072.72	A08	11	4	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1	1
258	7789	8343.84	-554.84	A08	11	4	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1	1
223	9408	13573.69	-4165.69	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	1	1	1	1	1
224	10782	11674.44	-892.44	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	1	1	1	1	1
225	9279	10658.96	-1379.96	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	1	1	1	1	1
226	8970	10330.81	-1360.81	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	1	1	1	1	1
227	9392	10629.06	-1237.06	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	1	1	1	1	1
228	12381	11609.03	771.97	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	0	1	1	1	1	1
229	12017	13573.69	-1556.69	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	1	1	1	1	1	1
230	10233	11674.44	-1441.44	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	1	1	1	1	1	1
231	8206	10658.96	-2452.96	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	1	1	1	1	1	1
232	6336	10330.81	-3994.81	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	1	1	1	1	1	1
233	5420	10629.06	-5209.06	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	1	1	1	1	1	1
234	5809	11609.03	-5800.03	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.	Aluminum	1	1	1	1	1	1
241	9028	13604.98	-4576.98	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
242	10150	10710.70	-560.70	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
243	9472	8951.15	520.85	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
244	10677	7941.09	2735.91	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
245	11652	7478.64	4173.36	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
246	10981	7476.63	3504.37	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
259	18346	13314.39	5031.61	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
260	10158	10760.90	-602.90	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
261	6601	9232.45	-2631.45	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
262	6162	8408.64	-2246.64	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
263	6596	8129.72	-1533.72	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
264	6488	8343.84	-1855.84	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
217	9217	12205.30	-2988.30	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1	1
218	8904	10583.47	-1679.47	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1	1
219	7978	9742.01	-1764.01	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1	1
220	7338	9519.40	-2181.40	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1	1
221	5774	9874.42	-4100.42	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1	1
222	5433	10873.13	-5440.13	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1	1

Max PV Velocity

Variable	Maximum SRS Acceleration		Panels	30
Transformation	log(Max SRS Accel)		Tests	45
Table	SRS Preliminary Parameters			
Model File	141230 1722 Max PV Vel intercept only uninteresting factor data disincluded.jrp			
Excluded Values	Tests 27, 28 not used in model creation; used as confirmation points.			
Reason for Exclusions				
Model	Intercept-only model	Exp(5.5397968131626 1)		

Table of Estimates	Average of Pred Formula		Distance from LSC						
	Type - Thick	LSC Core Load	9	21	33	45	57	69	
	Al Honey - 1	10	254.6	254.6	254.6	254.6	254.6	254.6	
	Al Honey - 1	22	254.6	254.6	254.6	254.6	254.6	254.6	
	Aluminum - 0.187	10	254.6	254.6	254.6	254.6	254.6	254.6	
	Aluminum - 0.187	22	254.6	254.6	254.6	254.6	254.6	254.6	
	Monolithic - 0.2	10	254.6	254.6	254.6	254.6	254.6	254.6	
	Monolithic - 0.2	22	254.6	254.6	254.6	254.6	254.6	254.6	
	Monolithic - 0.3	10	254.6	254.6	254.6	254.6	254.6	254.6	
	Monolithic - 0.3	22	254.6	254.6	254.6	254.6	254.6	254.6	
	Rohacell - 1	10	254.6	254.6	254.6	254.6	254.6	254.6	
	Rohacell - 1	22	254.6	254.6	254.6	254.6	254.6	254.6	

c	Max PV Velocity	Pred Formula Max PV Velocity 2	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree	Aluminum LSC Plate
1	171	254.63	-83.63	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
2	178	254.63	-76.63	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
3	165	254.63	-89.63	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
4	178	254.63	-76.63	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
5	155	254.63	-99.63	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
6	226	254.63	-28.63	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
7	234	254.63	-20.63	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
8	173	254.63	-81.63	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
9	191	254.63	-63.63	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
10	161	254.63	-93.63	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
11	179	254.63	-75.63	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
12	276	254.63	21.37	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	0	1		1	1
13	212	254.63	-42.63	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
14	175	254.63	-79.63	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
15	163	254.63	-91.63	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
16	233	254.63	-21.63	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
17	175	254.63	-79.63	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
18	168	254.63	-86.63	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
19	300	254.63	45.37	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
20	271	254.63	16.37	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
21	281	254.63	26.37	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
22	273	254.63	18.37	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
23	423	254.63	168.37	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
24	441	254.63	186.37	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
25	309	254.63	54.37	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
26	265	254.63	10.37	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
27	315	254.63	60.37	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
28	288	254.63	33.37	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
29	393	254.63	138.37	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
30	273	254.63	18.37	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
31	332	254.63	77.37	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
32	318	254.63	63.37	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
33	313	254.63	58.37	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
34	341	254.63	86.37	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
35	342	254.63	87.37	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
36	390	254.63	135.37	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
43	255	254.63	0.37	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
44	194	254.63	-60.63	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
45	241	254.63	-13.63	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
46	238	254.63	-16.63	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
47	207	254.63	-47.63	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
48	223	254.63	-31.63	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
61	175	254.63	-79.63	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
62	220	254.63	-34.63	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
63	222	254.63	-32.63	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
64	182	254.63	-72.63	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
65	171	254.63	-83.63	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
66	135	254.63	-119.63	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
49	213	254.63	-41.63	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
50	258	254.63	3.37	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
51	284	254.63	29.37	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
52	297	254.63	42.37	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
53	274	254.63	19.37	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
54	219	254.63	-35.63	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1	Y	1	1
67	246	254.63	-8.63	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
68	303	254.63	48.37	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
69	269	254.63	14.37	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
70	264	254.63	9.37	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
71	276	254.63	21.37	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
72	293	254.63	38.37	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
73	375	254.63	120.37	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
74	376	254.63	121.37	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
75	364	254.63	109.37	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
76	368	254.63	113.37	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
77	447	254.63	192.37	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
78	382	254.63	127.37	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		0	1
79	380	254.63	125.37	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
80	344	254.63	89.37	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
81	381	254.63	126.37	7	7	1	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
82	373	254.63	118.37	7	7	1	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
83	385	254.63	130.37	7	7	1	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
84	482	254.63	227.37	7	7	1	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
85	171	254.63	-83.63	8	8	1	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
86	233	254.63	-21.63	8	8	1	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1
87	270	254.63	15.37	8	8	1	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.	Aluminum	0	0	1		1	1

Variance Components	Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev
	Panel No	0.4987936	**0.0120609**	0.01974	-0.0266	0.05075	**1554.1%**	**0.10982213**
	Test No	1.7106575	**0.0413641**	0.0208	0.0006	0.08212	**5330.1%**	**0.20338166**
	Residual		**0.0241802**	0.00275	0.01959	0.03061	**3115.8%**	**0.15549984**
	Total		**0.0776053**	0.01519	0.05471	0.11869	**10000.0%**	**0.27857728**

0.01

Alternative Model	Model including potentially significant terms
	141230 1654 Max PV Vel TT Dist x Plate Dist x Sever Dist x Damp.jrp

Variance Components			
Random Effect	Variance Component	Component's Percent Share of Total Variance	Standard Deviation of Effect's Component (transformed units)
Panel-to-Panel	0.0120609	15.5%	0.1098221
Test-to-Test	0.0413641	53.3%	0.2033817
Within-Test	0.0241802	31.2%	0.1554998
Total Variability Not Exp	0.0776053	100.0%	0.2785773

88	256	254.63	1.37	8	8	1	5/16/2013	0	45	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
89	263	254.63	8.37	8	8	1	5/16/2013	0	57	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
90	218	254.63	-36.63	8	8	1	5/16/2013	0	69	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
97	226	254.63	-28.63	9	9	1	5/17/2013	0	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
98	306	254.63	51.37	9	9	1	5/17/2013	0	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
99	346	254.63	91.37	9	9	1	5/17/2013	0	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
100	336	254.63	81.37	9	9	1	5/17/2013	0	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
101	276	254.63	21.37	9	9	1	5/17/2013	0	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
102	218	254.63	-36.63	9	9	1	5/17/2013	0	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1	1
109	274	254.63	19.37	10	10	1	5/29/2013	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
110	283	254.63	28.37	10	10	1	5/29/2013	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
111	306	254.63	51.37	10	10	1	5/29/2013	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
112	311	254.63	56.37	10	10	1	5/29/2013	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
113	281	254.63	26.37	10	10	1	5/29/2013	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
114	300	254.63	45.37	10	10	1	5/29/2013	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
115	139	254.63	-115.63	11	11	2	5/31/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
116	173	254.63	-81.63	11	11	2	5/31/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
117	209	254.63	-45.63	11	11	2	5/31/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
118	190	254.63	-64.63	11	11	2	5/31/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
119	191	254.63	-63.63	11	11	2	5/31/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
120	187	254.63	-67.63	11	11	2	5/31/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
121	262	254.63	7.37	12	14	2	6/28/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
122	306	254.63	51.37	12	14	2	6/28/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
123	346	254.63	91.37	12	14	2	6/28/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
124	358	254.63	103.37	12	14	2	6/28/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
125	257	254.63	2.37	12	14	2	6/28/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
126	271	254.63	16.37	12	14	2	6/28/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
127	145	254.63	-109.63	13	13	2	7/16/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
128	190	254.63	-64.63	13	13	2	7/16/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
129	169	254.63	-85.63	13	13	2	7/16/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
130	185	254.63	-69.63	13	13	2	7/16/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
131	162	254.63	-92.63	13	13	2	7/16/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
132	192	254.63	-62.63	13	13	2	7/16/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
133	260	254.63	5.37	14	12	2	7/17/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
134	250	254.63	-4.63	14	12	2	7/17/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
135	255	254.63	0.37	14	12	2	7/17/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
136	209	254.63	-45.63	14	12	2	7/17/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
137	191	254.63	-63.63	14	12	2	7/17/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
138	444	254.63	189.37	14	12	2	7/17/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
139	253	254.63	-1.63	15	16	2	7/18/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
140	241	254.63	-13.63	15	16	2	7/18/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
141	234	254.63	-20.63	15	16	2	7/18/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
142	190	254.63	-64.63	15	16	2	7/18/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
143	184	254.63	-70.63	15	16	2	7/18/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
144	388	254.63	133.37	15	16	2	7/18/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
145	271	254.63	16.37	16	18	2	7/23/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
146	341	254.63	86.37	16	18	2	7/23/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
147	340	254.63	85.37	16	18	2	7/23/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
148	350	254.63	95.37	16	18	2	7/23/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
149	292	254.63	37.37	16	18	2	7/23/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
150	322	254.63	67.37	16	18	2	7/23/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
151	181	254.63	-73.63	17	15	2	8/9/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
152	194	254.63	-60.63	17	15	2	8/9/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
153	255	254.63	0.37	17	15	2	8/9/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
154	221	254.63	-33.63	17	15	2	8/9/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
155	183	254.63	-71.63	17	15	2	8/9/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
156	270	254.63	15.37	17	15	2	8/9/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
157	169	254.63	-85.63	18	17	2	8/19/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
158	143	254.63	-111.63	18	17	2	8/19/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
159	145	254.63	-109.63	18	17	2	8/19/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
160	148	254.63	-106.63	18	17	2	8/19/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
161	165	254.63	-89.63	18	17	2	8/19/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
162	136	254.63	-118.63	18	17	2	8/19/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
163	236	254.63	-18.63	19	19	3	10/31/2013	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0
164	149	254.63	-105.63	19	19	3	10/31/2013	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0
165	146	254.63	-108.63	19	19	3	10/31/2013	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0
166	126	254.63	-128.63	19	19	3	10/31/2013	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0
167	157	254.63	-97.63	19	19	3	10/31/2013	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0
168	97	254.63	-157.63	19	19	3	10/31/2013	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0		1	0
169	275	254.63	20.37	20	20	3	11/19/2013	0	9	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0
170	284	254.63	29.37	20	20	3	11/19/2013	0	21	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0
171	210	254.63	-44.63	20	20	3	11/19/2013	0	33	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0
172	194	254.63	-60.63	20	20	3	11/19/2013	0	45	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1		1	0

173	322	254.63	67.37	20	20	3	11/19/2013	0	57	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1	0
174	107	254.63	-147.63	20	20	3	11/19/2013	0	69	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	1	1	0
181	261	254.63	6.37	22	22	3	11/25/2013	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
182	193	254.63	-61.63	22	22	3	11/25/2013	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
183	170	254.63	-84.63	22	22	3	11/25/2013	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
184	146	254.63	-108.63	22	22	3	11/25/2013	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
185	155	254.63	-99.63	22	22	3	11/25/2013	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
186	148	254.63	-106.63	22	22	3	11/25/2013	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1
175	233	254.63	-21.63	21	21	3	12/4/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
176	226	254.63	-28.63	21	21	3	12/4/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
177	219	254.63	-35.63	21	21	3	12/4/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
178	172	254.63	-82.63	21	21	3	12/4/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
179	198	254.63	-56.63	21	21	3	12/4/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
180	285	254.63	30.37	21	21	3	12/4/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
55	186	254.63	-68.63	4R	4	1	12/12/2013	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
56	216	254.63	-38.63	4R	4	1	12/12/2013	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
57	219	254.63	-35.63	4R	4	1	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
58	178	254.63	-76.63	4R	4	1	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
59	223	254.63	-31.63	4R	4	1	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
60	176	254.63	-78.63	4R	4	1	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
37	311	254.63	56.37	2R	2	1	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
38	268	254.63	13.37	2R	2	1	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
39	305	254.63	50.37	2R	2	1	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
40	290	254.63	35.37	2R	2	1	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
41	320	254.63	65.37	2R	2	1	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
42	249	254.63	-5.63	2R	2	1	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
205	145	254.63	-109.63	26	26	3	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
206	150	254.63	-104.63	26	26	3	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
207	190	254.63	-64.63	26	26	3	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
208	143	254.63	-111.63	26	26	3	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
209	136	254.63	-118.63	26	26	3	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
210	125	254.63	-129.63	26	26	3	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	1	1	0
103	234	254.63	-20.63	10R	10	1	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	0	1	1
104	345	254.63	90.37	10R	10	1	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	0	1	1
105	279	254.63	24.37	10R	10	1	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	0	1	1
106	301	254.63	46.37	10R	10	1	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	0	1	1
107	258	254.63	3.37	10R	10	1	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	0	1	1
108	343	254.63	88.37	10R	10	1	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	0	1	1
91	216	254.63	-38.63	9R	9	1	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
92	226	254.63	-28.63	9R	9	1	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
93	245	254.63	-9.63	9R	9	1	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
94	245	254.63	-9.63	9R	9	1	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
95	193	254.63	-61.63	9R	9	1	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
96	195	254.63	-59.63	9R	9	1	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
187	197	254.63	-57.63	23	23	3	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
188	156	254.63	-98.63	23	23	3	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
189	139	254.63	-115.63	23	23	3	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
190	125	254.63	-129.63	23	23	3	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
191	114	254.63	-140.63	23	23	3	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
192	145	254.63	-109.63	23	23	3	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
193	225	254.63	-29.63	24	24	3	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
194	259	254.63	4.37	24	24	3	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
195	281	254.63	26.37	24	24	3	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
196	276	254.63	21.37	24	24	3	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
197	232	254.63	-22.63	24	24	3	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
198	301	254.63	46.37	24	24	3	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
199	95	254.63	-159.63	25	25	3	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1	0
200	142	254.63	-112.63	25	25	3	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1	0
201	211	254.63	-43.63	25	25	3	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1	0
202	165	254.63	-89.63	25	25	3	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1	0
203	122	254.63	-132.63	25	25	3	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1	0
204	126	254.63	-128.63	25	25	3	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	1	1	0
235	286	254.63	31.37	A05	17	4	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
236	278	254.63	23.37	A05	17	4	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
237	256	254.63	1.37	A05	17	4	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
238	235	254.63	-19.63	A05	17	4	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
239	252	254.63	-2.63	A05	17	4	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
240	476	254.63	221.37	A05	17	4	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
265	324	254.63	69.37	A10	12	4	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
266	256	254.63	1.37	A10	12	4	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
267	286	254.63	31.37	A10	12	4	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
268	239	254.63	-15.63	A10	12	4	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
269	225	254.63	-29.63	A10	12	4	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
270	275	254.63	20.37	A10	12	4	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
211	291	254.63	36.37	A01	8	4	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
212	380	254.63	125.37	A01	8	4	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
213	300	254.63	45.37	A01	8	4	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
214	258	254.63	3.37	A01	8	4	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
215	262	254.63	7.37	A01	8	4	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
216	291	254.63	36.37	A01	8	4	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0	Aluminum	0	0	1	1	1
247	311	254.63	56.37	A07	18	4	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
248	260	254.63	5.37	A07	18	4	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
249	276	254.63	21.37	A07	18	4	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
250	281	254.63	26.37	A07	18	4	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
251	284	254.63	29.37	A07	18	4	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1

252	327	254.63	72.37	A07	18	4	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
253	302	254.63	47.37	A08	11	4	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
254	342	254.63	87.37	A08	11	4	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
255	302	254.63	47.37	A08	11	4	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
256	368	254.63	113.37	A08	11	4	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
257	297	254.63	42.37	A08	11	4	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
258	283	254.63	28.37	A08	11	4	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
223	237	254.63	-17.63	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1	1
224	253	254.63	-1.63	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1	1
225	261	254.63	6.37	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1	1
226	237	254.63	-17.63	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1	1
227	255	254.63	0.37	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1	1
228	167	254.63	-87.63	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	0	1	1	1	1
229	297	254.63	42.37	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1	1
230	336	254.63	81.37	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1	1
231	269	254.63	14.37	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1	1
232	236	254.63	-18.63	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1	1
233	197	254.63	-57.63	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1	1
234	247	254.63	-7.63	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneou	Aluminum - 0.	Aluminum	1	1	1	1	1
241	389	254.63	134.37	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
242	327	254.63	72.37	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
243	348	254.63	93.37	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
244	369	254.63	114.37	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
245	445	254.63	190.37	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
246	403	254.63	148.37	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
259	302	254.63	47.37	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
260	346	254.63	91.37	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
261	311	254.63	56.37	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
262	292	254.63	37.37	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
263	244	254.63	-10.63	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
264	321	254.63	66.37	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
217	198	254.63	-56.63	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1
218	263	254.63	8.37	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1
219	231	254.63	-23.63	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1
220	140	254.63	-114.63	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1
221	156	254.63	-98.63	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1
222	158	254.63	-96.63	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.	Aluminum	1	1	1	1	1

F4 Prime

Variable	**F4prime**			Panels	30
Transformation	**log(F4 prime)**			Tests	45
Table	SRS Plot Points				
Model File	150115 1218 F4prime Dist3, Damp split-plot.jrp				
Excluded Values	Tests 27, 28 not used in model creation; used as confirmation points.				
Reason for Exclusions	(Test 10R may be a wild point)				
Model	Baseline	Exp(			
			7.47645338066068 + 0.176312424977771 * ((:Distance from LSC - 39) / 30) +		
			Match(:Acoustic Damped, "0", 0.193963571811918, "1", -0.193963571811918, .) +		
			((:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) *		
			0.0279313603300892) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC		
			- 39) / 30) * (((:Distance from LSC - 39) / 30) * -0.284608051208915))		
		)			

Table of Estimates	Average of Pred Formula F4 prime	Distance from LSC					
	Acoustic Damped	9	21	33	45	57	69
	0	2456.9	2071.8	2076.7	2218.4	2263.8	1978.4
	1	1666.9	1405.6	1409.0	1505.1	1535.9	1342.3

c	F4 prime	Pred Formula F4 prime	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree	Aluminum LSC Plate
1	3569	2456.87	1112.13	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
2	1829	2071.77	-242.77	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
3	2235	2076.73	158.27	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
4	3956	2218.35	1737.65	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
5	2948	2263.76	684.24	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
6	1972	1978.42	-6.42	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
7	2205	2456.87	-251.87	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
8	3837	2071.77	1765.23	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
9	2247	2076.73	170.27	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
10	4232	2218.35	2013.65	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
11	2923	2263.76	659.24	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
12	4148	1978.42	2169.58	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
13	1265	2456.87	-1191.87	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
14	2802	2071.77	730.23	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
15	2145	2076.73	68.27	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
16	1570	2218.35	-648.35	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
17	1695	2263.76	-568.76	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
18	1651	1978.42	-327.42	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
19	2869	2456.87	412.13	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
20	940	2071.77	-1131.77	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
21	3474	2076.73	1397.27	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
22	3350	2218.35	1131.65	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
23	3368	2263.76	1104.24	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
24	3191	1978.42	1212.58	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
25	1676	2456.87	-780.87	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
26	2252	2071.77	180.23	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
27	1641	2076.73	-435.73	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
28	1574	2218.35	-644.35	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
29	1278	2263.76	-985.76	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
30	2593	1978.42	614.58	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
31	2644	2456.87	187.13	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
32	2587	2071.77	515.23	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
33	2519	2076.73	442.27	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
34	1952	2218.35	-266.35	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
35	1989	2263.76	-274.76	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
36	1980	1978.42	1.58	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
43	1994	2456.87	-462.87	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
44	2440	2071.77	368.23	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
45	2051	2076.73	-25.73	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
46	2492	2218.35	273.65	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
47	3307	2263.76	1043.24	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
48	1876	1978.42	-102.42	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
61	2594	2456.87	137.13	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
62	1406	2071.77	-665.77	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
63	2022	2076.73	-54.73	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
64	2239	2218.35	20.65	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
65	3655	2263.76	1391.24	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
66	3039	1978.42	1060.58	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
49	1756	2456.87	-700.87	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
50	1899	2071.77	-172.77	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
51	1832	2076.73	-244.73	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
52	1466	2218.35	-752.35	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
53	1643	2263.76	-620.76	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
54	2487	1978.42	508.58	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
67	2631	2456.87	174.13	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
68	3351	2071.77	1279.23	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
69	3209	2076.73	1132.27	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
70	2767	2218.35	548.65	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
71	3087	2263.76	823.24	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
72	2952	1978.42	973.58	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
73	2560	2456.87	103.13	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
74	2016	2071.77	-55.77	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
75	1372	2076.73	-704.73	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
76	1696	2218.35	-522.35	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
77	1885	2263.76	-378.76	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
78	2031	1978.42	52.58	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
79	2500	2456.87	43.13	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
80	1825	2071.77	-246.77	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
81	1089	2076.73	-987.73	7	7	1	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
82	1651	2218.35	-567.35	7	7	1	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
83	2354	2263.76	90.24	7	7	1	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
84	2303	1978.42	324.58	7	7	1	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
85	2759	2456.87	302.13	8	8	1	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
86	1495	2071.77	-576.77	8	8	1	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
87	1476	2076.73	-600.73	8	8	1	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1

180	2231	1978.42	252.58	21	21	3	12/4/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
55	3300	2456.87	843.13	4R	4	1	12/12/2013	1	9	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
56	2872	2071.77	800.23	4R	4	1	12/12/2013	1	21	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
57	3511	2076.73	1434.27	4R	4	1	12/12/2013	1	33	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
58	2982	2218.35	763.65	4R	4	1	12/12/2013	1	45	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
59	3109	2263.76	845.24	4R	4	1	12/12/2013	1	57	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
60	1846	1978.42	-132.42	4R	4	1	12/12/2013	1	69	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
37	843	2456.87	-1613.87	2R	2	1	12/16/2013	1	9	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
38	744	2071.77	-1327.77	2R	2	1	12/16/2013	1	21	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
39	1016	2076.73	-1060.73	2R	2	1	12/16/2013	1	33	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
40	1712	2218.35	-506.35	2R	2	1	12/16/2013	1	45	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
41	682	2263.76	-1581.76	2R	2	1	12/16/2013	1	57	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
42	803	1978.42	-1175.42	2R	2	1	12/16/2013	1	69	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
205	2143	2456.87	-313.87	26	26	3	12/18/2013	0	9	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	1		1	0
206	2080	2071.77	8.23	26	26	3	12/18/2013	0	21	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	1		1	0
207	1241	2076.73	-835.73	26	26	3	12/18/2013	0	33	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	1		1	0
208	2114	2218.35	-104.35	26	26	3	12/18/2013	0	45	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	1		1	0
209	1111	2263.76	-1152.76	26	26	3	12/18/2013	0	57	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	1		1	0
210	1055	1978.42	-923.42	26	26	3	12/18/2013	0	69	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	1		1	0
103	3876	2456.87	1419.13	10R	10	1	1/16/2014	1	9	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
104	2854	2071.77	782.23	10R	10	1	1/16/2014	1	21	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
105	2969	2076.73	892.27	10R	10	1	1/16/2014	1	33	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
106	3376	2218.35	1157.65	10R	10	1	1/16/2014	1	45	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
107	3700	2263.76	1436.24	10R	10	1	1/16/2014	1	57	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
108	2555	1978.42	576.58	10R	10	1	1/16/2014	1	69	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
91	2449	2456.87	-7.87	9R	9	1	1/23/2014	1	9	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
92	1318	2071.77	-753.77	9R	9	1	1/23/2014	1	21	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
93	2007	2076.73	-69.73	9R	9	1	1/23/2014	1	33	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
94	2005	2218.35	-213.35	9R	9	1	1/23/2014	1	45	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
95	2205	2263.76	-58.76	9R	9	1	1/23/2014	1	57	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
96	1588	1978.42	-390.42	9R	9	1	1/23/2014	1	69	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
187	3370	2456.87	913.13	23	23	3	4/18/2014	0	9	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
188	2108	2071.77	36.23	23	23	3	4/18/2014	0	21	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
189	3100	2076.73	1023.27	23	23	3	4/18/2014	0	33	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
190	2810	2218.35	591.65	23	23	3	4/18/2014	0	45	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
191	2249	2263.76	-14.76	23	23	3	4/18/2014	0	57	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
192	1761	1978.42	-217.42	23	23	3	4/18/2014	0	69	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
193	3771	2456.87	1314.13	24	24	3	4/22/2014	0	9	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
194	2650	2071.77	578.23	24	24	3	4/22/2014	0	21	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
195	2145	2076.73	68.27	24	24	3	4/22/2014	0	33	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
196	2577	2218.35	358.65	24	24	3	4/22/2014	0	45	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
197	2494	2263.76	230.24	24	24	3	4/22/2014	0	57	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
198	1735	1978.42	-243.42	24	24	3	4/22/2014	0	69	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
199	2447	2456.87	-9.87	25	25	3	6/10/2014	0	9	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	1		1	0
200	2331	2071.77	259.23	25	25	3	6/10/2014	0	21	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	1		1	0
201	2282	2076.73	205.27	25	25	3	6/10/2014	0	33	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	1		1	0
202	2169	2218.35	-49.35	25	25	3	6/10/2014	0	45	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	1		1	0
203	1924	2263.76	-339.76	25	25	3	6/10/2014	0	57	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	1		1	0
204	1701	1978.42	-277.42	25	25	3	6/10/2014	0	69	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composite	0	0	1		1	0
235	3423	2456.87	2966.13	A05	17	4	8/20/2014	1	9	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
236	2095	2071.77	23.23	A05	17	4	8/20/2014	1	21	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
237	2208	2076.73	131.27	A05	17	4	8/20/2014	1	33	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
238	1906	2218.35	-312.35	A05	17	4	8/20/2014	1	45	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
239	1673	2263.76	-590.76	A05	17	4	8/20/2014	1	57	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
240	1418	1978.42	-560.42	A05	17	4	8/20/2014	1	69	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
265	3244	1666.89	1577.11	A10	12	4	8/21/2014	1	9	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1	1
266	2816	1405.62	1410.38	A10	12	4	8/21/2014	1	21	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1	1
267	1898	1408.98	489.02	A10	12	4	8/21/2014	1	33	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1	1
268	2490	1505.07	984.93	A10	12	4	8/21/2014	1	45	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1	1
269	1827	1535.88	291.12	A10	12	4	8/21/2014	1	57	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1	1
270	2105	1342.28	763.72	A10	12	4	8/21/2014	1	69	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1		1	1
211	1823	2456.87	-633.87	A01	8	4	8/25/2014	1	9	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
212	1837	2071.77	-234.77	A01	8	4	8/25/2014	1	21	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
213	1816	2076.73	-260.73	A01	8	4	8/25/2014	1	33	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
214	1931	2218.35	-287.35	A01	8	4	8/25/2014	1	45	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
215	1910	2263.76	-353.76	A01	8	4	8/25/2014	1	57	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
216	1621	1978.42	-357.42	A01	8	4	8/25/2014	1	69	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
247	771	1666.89	-895.89	A07	18	4	8/26/2014	1	9	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1	1
248	2786	1405.62	1380.38	A07	18	4	8/26/2014	1	21	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1	1
249	1418	1408.98	9.02	A07	18	4	8/26/2014	1	33	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1	1
250	1713	1505.07	207.93	A07	18	4	8/26/2014	1	45	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1	1
251	1341	1535.88	-194.88	A07	18	4	8/26/2014	1	57	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1	1
252	1494	1342.28	151.72	A07	18	4	8/26/2014	1	69	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1		1	1
253	1670	2456.87	-786.87	A08	11	4	8/26/2014	1	9	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
254	1387	2071.77	-684.77	A08	11	4	8/26/2014	1	21	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
255	1518	2076.73	-558.73	A08	11	4	8/26/2014	1	33	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
256	1498	2218.35	-720.35	A08	11	4	8/26/2014	1	45	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
257	945	2263.76	-1318.76	A08	11	4	8/26/2014	1	57	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
258	1084	1978.42	-894.42	A08	11	4	8/26/2014	1	69	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1

223	2064	2456.87	-392.87	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1	1
224	2320	2071.77	248.23	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1	1
225	1962	2076.73	-114.73	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1	1
226	2055	2218.35	-163.35	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1	1
227	1132	2263.76	-1131.76	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1	1
228	1944	1978.42	-34.42	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1	1
229	1789	1666.89	122.11	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
230	1550	1405.62	144.38	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
231	1716	1408.98	307.02	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
232	1611	1505.07	105.93	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
233	1888	1535.88	352.12	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
234	1562	1342.28	219.72	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
241	518	1666.89	-1148.89	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
242	414	1405.62	-991.62	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
243	1376	1408.98	-32.98	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
244	1611	1505.07	105.93	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
245	1250	1535.88	-285.88	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
246	1525	1342.28	182.72	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
259	795	1666.89	-871.89	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
260	1702	1405.62	296.38	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
261	1343	1408.98	-65.98	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
262	1487	1505.07	-18.07	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
263	1473	1535.88	-62.88	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
264	1349	1342.28	6.72	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
217	1938	1666.89	271.11	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
218	1032	1405.62	-373.62	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
219	1000	1408.98	-408.98	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
220	1580	1505.07	74.93	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
221	1411	1535.88	-124.88	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
222	1069	1342.28	-273.28	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1

SRS 1

Variable	**SRS1**		Panels	30
Transformation	**log(SRS1)**		Tests	45
Table	SRS Plot Points			
Model File	150115 1627 SRS1 Dist3, Dist2 x TT split-plot.jrp			
Excluded Values	Tests 27, 28 not used in model creation; used as confirmation points.			
Reason for Exclusions				

Model Baseline

```
Exp(
    4.58252882781051 + -0.00155145073510171 * ((:Distance from LSC - 39) / 30) +
    Match( :Name( "Type - Thick" ),
        Al Honey - 1, -0.331779574313124,
        Rohacell - 1, -0.236470368298261,
        Aluminum - 0.187, -0.0339738031050941,
        Monolithic - 0.2, 0.772626838077598,
        Monolithic - 0.3, -0.170403092361119,
        .
    ) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) * -
    0.111656869712595) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC -
    39) / 30) * (((:Distance from LSC - 39) / 30) * -0.356921848771425)) + ((
    :Distance from LSC - 39) / 30) * Match( :Name( "Type - Thick" ),
        Al Honey - 1, -0.0071549630796822,
        Rohacell - 1, 0.0439527963276101,
        Aluminum - 0.187, 0.0455795776598272,
        Monolithic - 0.2, -0.0611256521870972,
        Monolithic - 0.3, -0.0212517587206578,
        .
    ) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) *
    Match( :Name( "Type - Thick" ),
        Al Honey - 1, 0.280819406496983,
        Rohacell - 1, -0.132152767507317,
        Aluminum - 0.187, 0.0274709498380225,
        Monolithic - 0.2, -0.440111881502178,
        Monolithic - 0.3, 0.263974292674489,
        .
    ))
)
```

Table of Estimates

Average of Pred Formula SRS1 2	Distance from LSC					
Type - Thick	**9**	**21**	**33**	**45**	**57**	**69**
Al Honey - 1	116.0	88.8	83.8	83.1	75.5	56.1
Aluminum - 0.187	118.8	96.4	93.6	94.7	87.1	63.5
Monolithic - 0.2	179.5	184.3	197.6	191.8	146.9	78.1
Monolithic - 0.3	130.6	91.0	81.0	80.1	76.6	62.0
Rohacell - 1	101.7	79.9	76.5	76.6	69.9	51.2

c	SRS1	Pred Formula SRS1 2	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree	Aluminum LSC Plate
1	95	118.78	-23.78	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
2	71	96.44	-25.44	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
3	77	93.62	-16.62	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
4	128	94.74	33.26	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
5	133	87.14	45.86	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
6	48	63.53	-15.53	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
7	113	118.78	-5.78	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
8	151	96.44	54.56	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
9	114	93.62	20.38	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
10	142	94.74	47.26	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
11	164	87.14	76.86	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
12	70	63.53	6.47	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
13	80	185.49	-105.49	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
14	226	194.65	31.35	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
15	85	210.29	-125.29	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
16	56	203.91	-147.91	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
17	63	154.75	-91.75	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
18	56	80.14	-24.14	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
19	489	185.49	303.51	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
20	79	194.65	-115.65	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
21	183	210.29	-27.29	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
22	304	203.91	100.09	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
23	157	154.75	2.25	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
24	186	80.14	105.86	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
25	113	185.49	-72.49	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
26	146	194.65	-48.65	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
27	126	210.29	-84.29	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
28	133	203.91	-70.91	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
29	72	154.75	-82.75	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
30	54	80.14	-26.14	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
31	388	185.49	202.51	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
32	552	194.65	357.35	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
33	493	210.29	282.71	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
34	501	203.91	297.09	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
35	516	154.75	361.25	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
36	94	80.14	13.86	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
43	122	185.49	-63.49	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
44	203	194.65	8.35	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
45	76	210.29	-134.29	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
46	173	203.91	-30.91	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
47	214	154.75	59.25	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
48	52	80.14	-28.14	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
61	161	140.35	20.65	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
62	126	95.37	30.63	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
63	78	83.57	-5.57	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
64	75	82.34	-7.34	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
65	48	79.53	-31.53	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
66	175	65.67	109.33	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
49	123	140.35	-17.35	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
50	210	95.37	114.63	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
51	149	83.57	65.43	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
52	81	82.34	-1.34	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
53	69	79.53	-10.53	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
54	70	65.67	4.33	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
67	244	185.49	58.51	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
68	264	194.65	69.35	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
69	190	210.29	-20.29	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
70	155	203.91	-48.91	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
71	205	154.75	50.25	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
72	64	80.14	-16.14	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
73	376	185.49	190.51	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
74	282	194.65	87.35	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
75	417	210.29	206.71	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
76	510	203.91	306.09	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
77	752	154.75	597.25	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
78	88	80.14	7.86	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
79	384	185.49	198.51	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
80	399	194.65	204.35	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
81	352	210.29	141.71	7	7	1	5/9/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
82	261	203.91	57.09	7	7	1	5/9/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
83	563	154.75	408.25	7	7	1	5/9/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
84	145	80.14	64.86	7	7	1	5/9/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
85	64	140.35	-76.35	8	8	1	5/16/2013	0	9	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
86	123	95.37	27.63	8	8	1	5/16/2013	0	21	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
87	19	83.57	-64.57	8	8	1	5/16/2013	0	33	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1

Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev
0.5986449	**0.1171**	0.0979	-0.075	0.309	**2335.2%**	**0.34**
0.9648861	**0.1887**	0.0779	0.0359	0.3414	**3763.9%**	**0.43**
	0.1955	0.0189	0.1632	0.2396	**3900.9%**	**0.44**
	0.5013	0.0845	0.3695	0.719	**10000.0%**	**0.71**

0.01

Variance Components

Random Effect	Variance Component	Component's Percent Share of Total Variance	Standard Deviation of Effect's Component (transformed units)
Panel-to-Panel	0.1170589	23.4%	0.3421387
Test-to-Test	0.1886735	37.6%	0.4343656
Within-Test	0.1956397	39.0%	0.4421987
Total Variability Not Exp	0.5012721	100.0%	0.7080057

88	87	82.34	4.66	8	8	1	5/16/2013	0	45	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
89	62	79.53	-17.53	8	8	1	5/16/2013	0	57	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
90	73	65.67	7.33	8	8	1	5/16/2013	0	69	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
97	108	140.35	-32.35	9	9	1	5/17/2013	0	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
98	109	95.37	13.63	9	9	1	5/17/2013	0	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
99	47	83.57	-36.57	9	9	1	5/17/2013	0	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
100	170	82.34	87.66	9	9	1	5/17/2013	0	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
101	123	79.53	43.47	9	9	1	5/17/2013	0	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
102	58	65.67	-7.67	9	9	1	5/17/2013	0	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
109	166	185.49	-19.49	10	10	1	5/29/2013	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	Y	1	1
110	176	194.65	-18.65	10	10	1	5/29/2013	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	Y	1	1
111	197	210.29	-13.29	10	10	1	5/29/2013	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	Y	1	1
112	83	203.91	-120.91	10	10	1	5/29/2013	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	Y	1	1
113	171	154.75	16.25	10	10	1	5/29/2013	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	Y	1	1
114	47	80.14	-33.14	10	10	1	5/29/2013	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	Y	1	1
115	86	119.77	-33.77	11	11	2	5/31/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
116	184	80.96	103.04	11	11	2	5/31/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
117	73	70.96	2.04	11	11	2	5/31/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
118	69	70.31	-1.31	11	11	2	5/31/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
119	75	68.67	6.33	11	11	2	5/31/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
120	49	57.64	-8.64	11	11	2	5/31/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
121	185	82.83	102.17	12	14	2	6/28/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
122	89	74.44	14.56	12	14	2	6/28/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
123	102	76.00	26.00	12	14	2	6/28/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
124	72	76.86	-4.86	12	14	2	6/28/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
125	95	67.13	27.87	12	14	2	6/28/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
126	47	44.16	2.84	12	14	2	6/28/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
127	109	82.83	26.17	13	13	2	7/16/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
128	36	74.44	-38.44	13	13	2	7/16/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
129	43	76.00	-33.00	13	13	2	7/16/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
130	36	76.86	-40.86	13	13	2	7/16/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
131	52	67.13	-15.13	13	13	2	7/16/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
132	21	44.16	-23.16	13	13	2	7/16/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
133	359	119.77	239.23	14	12	2	7/17/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
134	130	80.96	49.04	14	12	2	7/17/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
135	84	70.96	13.04	14	12	2	7/17/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
136	91	70.31	20.69	14	12	2	7/17/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
137	105	68.67	36.33	14	12	2	7/17/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
138	109	57.64	51.36	14	12	2	7/17/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
139	110	82.83	27.17	15	16	2	7/18/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
140	123	74.44	48.56	15	16	2	7/18/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
141	100	76.00	24.00	15	16	2	7/18/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
142	71	76.86	-5.86	15	16	2	7/18/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
143	120	67.13	52.87	15	16	2	7/18/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
144	45	44.16	0.84	15	16	2	7/18/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
145	107	119.77	-12.77	16	18	2	7/23/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
146	156	80.96	75.04	16	18	2	7/23/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
147	58	70.96	-12.96	16	18	2	7/23/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
148	57	70.31	-13.31	16	18	2	7/23/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
149	48	68.67	-20.67	16	18	2	7/23/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
150	52	57.64	-5.64	16	18	2	7/23/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
151	47	119.77	-72.77	17	15	2	8/9/2013	0	9	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
152	68	80.96	-12.96	17	15	2	8/9/2013	0	21	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
153	27	70.96	-43.96	17	15	2	8/9/2013	0	33	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
154	94	70.31	23.69	17	15	2	8/9/2013	0	45	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
155	68	68.67	-0.67	17	15	2	8/9/2013	0	57	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
156	27	57.64	-30.64	17	15	2	8/9/2013	0	69	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
157	46	82.83	-36.83	18	17	2	8/19/2013	0	9	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
158	155	74.44	80.56	18	17	2	8/19/2013	0	21	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
159	69	76.00	-7.00	18	17	2	8/19/2013	0	33	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
160	62	76.86	-14.86	18	17	2	8/19/2013	0	45	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
161	102	67.13	34.87	18	17	2	8/19/2013	0	57	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
162	27	44.16	-17.16	18	17	2	8/19/2013	0	69	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1		1	1
163	17	82.83	-65.83	19	19	3	10/31/2013	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	0		1	0
164	29	74.44	-45.44	19	19	3	10/31/2013	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	0		1	0
165	23	76.00	-53.00	19	19	3	10/31/2013	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	0		1	0
166	26	76.86	-50.86	19	19	3	10/31/2013	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	0		1	0
167	34	67.13	-33.13	19	19	3	10/31/2013	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	0		1	0
168	18	44.16	-26.16	19	19	3	10/31/2013	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	0		1	0
169	112	119.77	-7.77	20	20	3	11/19/2013	0	9	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compos	0	0	1		1	0
170	134	80.96	53.04	20	20	3	11/19/2013	0	21	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compos	0	0	1		1	0
171	55	70.96	-15.96	20	20	3	11/19/2013	0	33	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compos	0	0	1		1	0
172	58	70.31	-12.31	20	20	3	11/19/2013	0	45	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compos	0	0	1		1	0
173	97	68.67	28.33	20	20	3	11/19/2013	0	57	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compos	0	0	1		1	0
174	43	57.64	-14.64	20	20	3	11/19/2013	0	69	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compos	0	0	1		1	0
181	202	140.35	61.65	22	22	3	11/25/2013	0	9	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
182	171	95.37	75.63	22	22	3	11/25/2013	0	21	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
183	59	83.57	-24.57	22	22	3	11/25/2013	0	33	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1

184	85	82.34	2.66	22	22	3	11/25/2013	0	45	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1				
185	213	79.53	133.47	22	22	3	11/25/2013	0	57	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1				
186	33	65.67	-32.67	22	22	3	11/25/2013	0	69	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0	1	1				
175	185	185.49	-0.49	21	21	3	12/4/2013	0	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
176	153	194.65	-41.65	21	21	3	12/4/2013	0	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
177	129	210.29	-81.29	21	21	3	12/4/2013	0	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
178	328	203.91	124.09	21	21	3	12/4/2013	0	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
179	146	154.75	-8.75	21	21	3	12/4/2013	0	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
180	84	80.14	3.86	21	21	3	12/4/2013	0	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
55	35	82.83	-47.83	4R	4	1	12/12/2013	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
56	70	74.44	-4.44	4R	4	1	12/12/2013	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
57	62	76.00	-14.00	4R	4	1	12/12/2013	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
58	90	76.86	13.14	4R	4	1	12/12/2013	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
59	69	67.13	1.87	4R	4	1	12/12/2013	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
60	27	44.16	-17.16	4R	4	1	12/12/2013	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
37	40	185.49	-145.49	2R	2	1	12/16/2013	1	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1				
38	50	194.65	-144.65	2R	2	1	12/16/2013	1	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1				
39	63	210.29	-147.29	2R	2	1	12/16/2013	1	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1				
40	164	203.91	-39.91	2R	2	1	12/16/2013	1	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1				
41	59	154.75	-95.75	2R	2	1	12/16/2013	1	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1				
42	16	80.14	-64.14	2R	2	1	12/16/2013	1	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1				
205	297	140.35	156.65	26	26	3	12/18/2013	0	9	1	22	Tape	Rohacell	Rohacell - 1	Tape Composi	0	0	1	1	0				
206	185	95.37	89.63	26	26	3	12/18/2013	0	21	1	22	Tape	Rohacell	Rohacell - 1	Tape Composi	0	0	1	1	0				
207	94	83.57	10.43	26	26	3	12/18/2013	0	33	1	22	Tape	Rohacell	Rohacell - 1	Tape Composi	0	0	1	1	0				
208	152	82.34	69.66	26	26	3	12/18/2013	0	45	1	22	Tape	Rohacell	Rohacell - 1	Tape Composi	0	0	1	1	0				
209	92	79.53	12.47	26	26	3	12/18/2013	0	57	1	22	Tape	Rohacell	Rohacell - 1	Tape Composi	0	0	1	1	0				
210	65	65.67	-0.67	26	26	3	12/18/2013	0	69	1	22	Tape	Rohacell	Rohacell - 1	Tape Composi	0	0	1	1	0				
103	21	119.77	-98.77	10R	10	1	1/16/2014	1	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0	1	1				
104	81	80.96	0.04	10R	10	1	1/16/2014	1	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0	1	1				
105	50	70.96	-20.96	10R	10	1	1/16/2014	1	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0	1	1				
106	62	70.31	-8.31	10R	10	1	1/16/2014	1	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0	1	1				
107	39	68.67	-29.67	10R	10	1	1/16/2014	1	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0	1	1				
108	47	57.64	-10.64	10R	10	1	1/16/2014	1	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0	1	1				
91	206	119.77	86.23	9R	9	1	1/23/2014	1	9	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
92	85	80.96	4.04	9R	9	1	1/23/2014	1	21	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
93	59	70.96	-11.96	9R	9	1	1/23/2014	1	33	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
94	98	70.31	27.69	9R	9	1	1/23/2014	1	45	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
95	78	68.67	9.33	9R	9	1	1/23/2014	1	57	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
96	115	57.64	57.36	9R	9	1	1/23/2014	1	69	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
187	20	119.77	-99.77	23	23	3	4/18/2014	0	9	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1				
188	31	80.96	-49.96	23	23	3	4/18/2014	0	21	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1				
189	28	70.96	-42.96	23	23	3	4/18/2014	0	33	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1				
190	37	70.31	-33.31	23	23	3	4/18/2014	0	45	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1				
191	31	68.67	-37.67	23	23	3	4/18/2014	0	57	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1				
192	30	57.64	-27.64	23	23	3	4/18/2014	0	69	1	10	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1				
193	387	119.77	267.23	24	24	3	4/22/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
194	308	80.96	227.04	24	24	3	4/22/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
195	72	70.96	1.04	24	24	3	4/22/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
196	63	70.31	-7.31	24	24	3	4/22/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
197	84	68.67	15.33	24	24	3	4/22/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
198	104	57.64	46.36	24	24	3	4/22/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
199	59	82.83	-23.83	25	25	3	6/10/2014	0	9	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	1	1	0				
200	36	74.44	-38.44	25	25	3	6/10/2014	0	21	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	1	1	0				
201	32	76.00	-44.00	25	25	3	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	1	1	0				
202	32	76.86	-44.86	25	25	3	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	1	1	0				
203	33	67.13	-34.13	25	25	3	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	1	1	0				
204	28	44.16	-16.16	25	25	3	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compos	0	0	1	1	0				
235	383	82.83	300.17	A05	17	4	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1				
236	125	74.44	50.56	A05	17	4	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1				
237	88	76.00	12.00	A05	17	4	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1				
238	102	76.86	25.14	A05	17	4	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1				
239	113	67.13	45.87	A05	17	4	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1				
240	147	44.16	102.84	A05	17	4	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1				
265	538	119.77	418.23	A10	12	4	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
266	227	80.96	146.04	A10	12	4	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1				
267	271	70.96	200.04	A10	12	4	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1				
268	168	70.31	97.69	A10	12	4	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1				
269	133	68.67	64.33	A10	12	4	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1				
270	91	57.64	33.36	A10	12	4	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1				
211	124	140.35	-16.35	A01	8	4	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
212	65	95.37	-30.37	A01	8	4	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
213	54	83.57	-29.57	A01	8	4	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
214	59	82.34	-23.34	A01	8	4	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
215	59	79.53	-20.53	A01	8	4	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
216	39	65.67	-26.67	A01	8	4	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1				
247	118	82.83	35.17	A07	18	4	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1				
248	392	74.44	317.56	A07	18	4	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1				
249	122	76.00	46.00	A07	18	4	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1				
250	144	76.86	67.14	A07	18	4	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1				
251	153	67.13	85.87	A07	18	4	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1				
252	99	44.16	54.84	A07	18	4	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1				
253	66	119.77	-53.77	A08	11	4	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
254	137	80.96	56.04	A08	11	4	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
255	69	70.96	-1.96	A08	11	4	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
256	38	70.31	-32.31	A08	11	4	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
257	52	68.67	-16.67	A08	11	4	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
258	103	57.64	45.36	A08	11	4	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1				
223	366	118.78	247.22	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1				
224	216	96.44	119.56	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1				

225	80	93.62	-13.62	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
226	135	94.74	40.26	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
227	140	87.14	52.86	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
228	63	63.53	-0.53	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
229	50	118.78	-68.78	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
230	56	96.44	-40.44	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
231	53	93.62	-40.62	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
232	29	94.74	-65.74	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
233	45	87.14	-42.14	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
234	51	63.53	-12.53	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
241	161	82.83	78.17	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
242	130	74.44	55.56	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
243	514	76.00	438.00	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
244	448	76.86	371.14	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
245	247	67.13	179.87	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
246	147	44.16	102.84	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
259	98	119.77	-21.77	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
260	90	80.96	9.04	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
261	111	70.96	40.04	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
262	39	70.31	-31.31	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
263	95	68.67	26.33	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
264	74	57.64	16.36	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
217	54	140.35	-86.35	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
218	62	95.37	-33.37	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
219	51	83.57	-32.57	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
220	55	82.34	-27.34	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
221	42	79.53	-37.53	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
222	55	65.67	-10.67	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1

SRS 4 Prime

Panels	*30*
Tests	*45*

SRS4prime
log(SRS4prime)
SRS Plot Points
150116 1312 SRS4prime Dist2 Dist x TT.jrp
Tests 27, 28 not used in model creation; used as confirmation points.

Baseline Exp(
9.14798243845737 + -0.166463884546463 * ((:Distance from LSC - 39) / 30) + ((
:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) *
0.186658985688572) + Match("Name("Type - Thick"),
Monolithic - 0.2, 0.201913000399105,
Monolithic - 0.3, -0.025884149363247 4,
Al Honey - 1, -0.110345882637344,
Rohacell - 1, -0.134506588908993,
Aluminum - 0.187, 0.0688236205104796,
.
) + ((:Distance from LSC - 39) / 30) * Match(:Name("Type - Thick"),
Monolithic - 0.2, 0.0763648448330247,
Monolithic - 0.3, 0.092513719332828 3,
Al Honey - 1, -0.088746938634114 8,
Rohacell - 1, -0.152257946188005,
Aluminum - 0.187, 0.0721263206562666,
.
)
)

Average of Pred Formula SRS4 prime	Distance from LSC						
Type - Thick		9	21	33	45	57	69
Al Honey - 1		13393.0	10732.2	9134.9	8259.0	7931.9	8092.1
Aluminum - 0.187		13330.4	11391.3	10333.4	9950.8	10172.1	11038.3
Monolithic - 0.2		14975.0	12753.3	11533.2	11074.9	11292.5	12226.2
Monolithic - 0.3		12248.7	10317.3	9238.6	8793.8	8897.1	9567.4
Rohacell - 1		13162.4	10525.7	8948.0	8086.9	7770.5	7939.0

c	SRS4 prime	Pred Formula SRS4 prime	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Acoustic Damped	Spliced LSC	Sever	Debonded Accel	0-Degree	Aluminum LSC Plate
1	17525	13330.40	4194.60	P1	P1	0	8/10/2012	0	9	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
2	11295	11391.31	-96.31	P1	P1	0	8/10/2012	0	21	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
3	12561	10333.43	2227.57	P1	P1	0	8/10/2012	0	33	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
4	10377	9950.77	426.23	P1	P1	0	8/10/2012	0	45	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
5	11293	10172.07	1120.93	P1	P1	0	8/10/2012	0	57	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
6	13285	11038.31	2246.69	P1	P1	0	8/10/2012	0	69	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
7	15170	13330.40	1839.60	P2	P1	0	8/16/2012	1	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
8	14814	11391.31	3422.69	P2	P1	0	8/16/2012	1	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
9	13014	10333.43	2680.57	P2	P1	0	8/16/2012	1	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
10	15470	9950.77	5519.23	P2	P1	0	8/16/2012	1	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
11	14643	10172.07	4470.93	P2	P1	0	8/16/2012	1	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
12	18641	11038.31	7602.69	P2	P1	0	8/16/2012	1	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	0	1		1	1
13	9605	15163.61	-5558.61	P3	P3	0	9/10/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
14	15179	12979.83	2199.17	P3	P3	0	9/10/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
15	8231	11794.42	-3563.42	P3	P3	0	9/10/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
16	8496	11376.92	-2880.92	P3	P3	0	9/10/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
17	11554	11649.67	-95.67	P3	P3	0	9/10/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
18	8579	12663.20	-4084.20	P3	P3	0	9/10/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
19	13601	15163.61	-1562.61	P4	P4	0	11/30/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
20	10268	12979.83	-2711.83	P4	P4	0	11/30/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
21	10480	11794.42	-1314.42	P4	P4	0	11/30/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
22	7299	11376.92	-4077.92	P4	P4	0	11/30/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
23	7107	11649.67	-4542.67	P4	P4	0	11/30/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
24	6856	12663.20	-5807.20	P4	P4	0	11/30/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
25	12478	15163.61	-2685.61	P5	P5	0	12/5/2012	0	9	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
26	15120	12979.83	2140.17	P5	P5	0	12/5/2012	0	21	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
27	8685	11794.42	-3109.42	P5	P5	0	12/5/2012	0	33	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
28	8786	11376.92	-2590.92	P5	P5	0	12/5/2012	0	45	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
29	10497	11649.67	-1152.67	P5	P5	0	12/5/2012	0	57	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
30	9672	12663.20	-2991.20	P5	P5	0	12/5/2012	0	69	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
31	13982	15163.61	-1181.61	1	1	1	1/23/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
32	12754	12979.83	-225.83	1	1	1	1/23/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
33	11777	11794.42	-17.42	1	1	1	1/23/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
34	10551	11376.92	-825.92	1	1	1	1/23/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
35	11626	11649.67	-23.67	1	1	1	1/23/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
36	12599	12663.20	-64.20	1	1	1	1/23/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
43	14368	15163.61	-795.61	2	2	1	1/29/2013	0	9	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
44	11514	12979.83	-1465.83	2	2	1	1/29/2013	0	21	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
45	12570	11794.42	775.58	2	2	1	1/29/2013	0	33	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
46	11525	11376.92	148.08	2	2	1	1/29/2013	0	45	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
47	12773	11649.67	1123.33	2	2	1	1/29/2013	0	57	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
48	12181	12663.20	-482.20	2	2	1	1/29/2013	0	69	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
61	11005	11881.14	-876.14	4	4	1	2/5/2013	0	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
62	8270	10235.99	-1965.99	4	4	1	2/5/2013	0	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
63	8448	9361.44	-913.44	4	4	1	2/5/2013	0	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
64	9696	9088.59	607.41	4	4	1	2/5/2013	0	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
65	9607	9366.79	240.21	4	4	1	2/5/2013	0	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
66	9069	10247.69	-1178.69	4	4	1	2/5/2013	0	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
49	11499	11881.14	-382.14	3	3	1	2/8/2013	0	9	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
50	8646	10235.99	-1589.99	3	3	1	2/8/2013	0	21	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
51	9003	9361.44	-358.44	3	3	1	2/8/2013	0	33	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
52	8228	9088.59	-860.59	3	3	1	2/8/2013	0	45	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
53	7945	9366.79	-1421.79	3	3	1	2/8/2013	0	57	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
54	9363	10247.69	-884.69	3	3	1	2/8/2013	0	69	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	Y	1	1
67	13539	15163.61	-1624.61	5	5	1	2/22/2013	0	9	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
68	16746	12979.83	3766.17	5	5	1	2/22/2013	0	21	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
69	16265	11794.42	4470.58	5	5	1	2/22/2013	0	33	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
70	13872	11376.92	2495.08	5	5	1	2/22/2013	0	45	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
71	15586	11649.67	3936.33	5	5	1	2/22/2013	0	57	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
72	17671	12663.20	5007.80	5	5	1	2/22/2013	0	69	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
73	18254	15163.61	3090.39	6	6	1	5/8/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
74	15930	12979.83	2950.17	6	6	1	5/8/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
75	11264	11794.42	-530.42	6	6	1	5/8/2013	0	33	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
76	10721	11376.92	-655.92	6	6	1	5/8/2013	0	45	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
77	13675	11649.67	2025.33	6	6	1	5/8/2013	0	57	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
78	13618	12663.20	954.80	6	6	1	5/8/2013	0	69	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		0	1
79	20354	15163.61	5190.39	7	7	1	5/9/2013	0	9	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
80	15695	12979.83	2715.17	7	7	1	5/9/2013	0	21	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1

Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev
Panel No	-0.492224	**-0.01332**	0.021515	-0.05548	0.02885	**0.0%**	**#NUM!**
Test No	2.6577824	**0.071899**	0.027232	0.01852	0.12527	**7266.1%**	**0.26814008**
Residual		**0.027052**	0.002585	0.02262	0.03293	**2733.9%**	**0.16447583**
Total		**0.098951**	0.027314	0.06149	0.1852	**10000.0%**	**0.31456541**

0

Variance Components

Random Effect	Variance Component	Component's Percent Share of Total Variance	Standard Deviation of Effect's Component (transformed units)
Panel-to-Panel	-0.01332	0.0%	0
Test-to-Test	0.07190	72.7%	0.26814
Within-Test	0.02705	27.3%	0.16448
Total Variability Not	0.09895	100.0%	0.31457

81	11437	11794.42	-357.42	7	7	1	5/9/2013	0	33	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1
82	10996	11376.92	-380.92	7	7	1	5/9/2013	0	45	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1
83	13602	11649.67	1952.33	7	7	1	5/9/2013	0	57	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1
84	16139	12663.20	3475.80	7	7	1	5/9/2013	0	69	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1	1	1
85	15759	11881.14	3877.86	8	8	1	5/16/2013	0	9	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
86	14657	10235.99	4421.01	8	8	1	5/16/2013	0	21	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
87	11130	9361.44	1768.56	8	8	1	5/16/2013	0	33	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
88	9468	9088.59	379.41	8	8	1	5/16/2013	0	45	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
89	10158	9366.79	791.21	8	8	1	5/16/2013	0	57	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
90	10309	10247.69	61.31	8	8	1	5/16/2013	0	69	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
97	9877	11881.14	-2004.14	9	9	1	5/17/2013	0	9	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
98	9279	10235.99	-956.99	9	9	1	5/17/2013	0	21	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
99	10512	9361.44	1150.56	9	9	1	5/17/2013	0	33	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
100	10884	9088.59	1795.41	9	9	1	5/17/2013	0	45	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
101	9542	9366.79	175.21	9	9	1	5/17/2013	0	57	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
102	13631	10247.69	3383.31	9	9	1	5/17/2013	0	69	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
109	22897	15163.61	7733.39	10	10	1	5/29/2013	0	9	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1 Y	1	1
110	18794	12979.83	5814.17	10	10	1	5/29/2013	0	21	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1 Y	1	1
111	18405	11794.42	6610.58	10	10	1	5/29/2013	0	33	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1 Y	1	1
112	12351	11376.92	974.08	10	10	1	5/29/2013	0	45	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1 Y	1	1
113	11920	11649.67	270.33	10	10	1	5/29/2013	0	57	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1 Y	1	1
114	14080	12663.20	1416.80	10	10	1	5/29/2013	0	69	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	1 Y	1	1
115	17035	13088.72	3946.28	11	11	2	5/31/2013	0	9	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
116	11602	10487.72	1114.28	11	11	2	5/31/2013	0	21	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
117	10434	8920.84	1513.16	11	11	2	5/31/2013	0	33	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
118	8908	8055.10	852.90	11	11	2	5/31/2013	0	45	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
119	8097	7721.06	375.94	11	11	2	5/31/2013	0	57	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
120	8439	7856.41	582.59	11	11	2	5/31/2013	0	69	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	0	1	1
121	14557	13614.04	942.96	12	14	2	6/28/2013	0	9	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
122	9624	10635.00	-1011.00	12	14	2	6/28/2013	0	21	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
123	8259	8819.20	-560.20	12	14	2	6/28/2013	0	33	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
124	6863	7763.57	-900.57	12	14	2	6/28/2013	0	45	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
125	8240	7254.96	985.04	12	14	2	6/28/2013	0	57	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
126	7624	7196.95	427.05	12	14	2	6/28/2013	0	69	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
127	11810	13614.04	-1804.04	13	13	2	7/16/2013	0	9	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
128	7534	10635.00	-3101.00	13	13	2	7/16/2013	0	21	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
129	6283	8819.20	-2536.20	13	13	2	7/16/2013	0	33	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
130	4464	7763.57	-3299.57	13	13	2	7/16/2013	0	45	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
131	5078	7254.96	-2176.96	13	13	2	7/16/2013	0	57	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
132	5637	7196.95	-1559.95	13	13	2	7/16/2013	0	69	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
133	13588	13088.72	499.28	14	12	2	7/17/2013	0	9	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
134	11460	10487.72	972.28	14	12	2	7/17/2013	0	21	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
135	13169	8920.84	4248.16	14	12	2	7/17/2013	0	33	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
136	8454	8055.10	398.90	14	12	2	7/17/2013	0	45	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
137	9768	7721.06	2046.94	14	12	2	7/17/2013	0	57	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
138	11453	7856.41	3596.59	14	12	2	7/17/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
139	14050	13614.04	435.96	15	16	2	7/18/2013	0	9	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
140	10589	10635.00	-46.00	15	16	2	7/18/2013	0	21	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
141	9001	8819.20	181.80	15	16	2	7/18/2013	0	33	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
142	7201	7763.57	-562.57	15	16	2	7/18/2013	0	45	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
143	9232	7254.96	1977.04	15	16	2	7/18/2013	0	57	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
144	9354	7196.95	2157.05	15	16	2	7/18/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
145	14466	13088.72	1377.28	16	18	2	7/23/2013	0	9	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
146	11093	10487.72	605.28	16	18	2	7/23/2013	0	21	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
147	8921	8920.84	0.16	16	18	2	7/23/2013	0	33	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
148	9639	8055.10	1583.90	16	18	2	7/23/2013	0	45	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
149	9565	7721.06	1843.94	16	18	2	7/23/2013	0	57	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
150	8747	7856.41	890.59	16	18	2	7/23/2013	0	69	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
151	10742	13088.72	-2346.72	17	15	2	8/9/2013	0	9	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
152	8435	10487.72	-2052.72	17	15	2	8/9/2013	0	21	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
153	7950	8920.84	-970.84	17	15	2	8/9/2013	0	33	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
154	7160	8055.10	-895.10	17	15	2	8/9/2013	0	45	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
155	6428	7721.06	-1293.06	17	15	2	8/9/2013	0	57	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
156	6138	7856.41	-1718.41	17	15	2	8/9/2013	0	69	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
157	32442	13614.04	18827.96	18	17	2	8/19/2013	0	9	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
158	17874	10635.00	7239.00	18	17	2	8/19/2013	0	21	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
159	14719	8819.20	5899.80	18	17	2	8/19/2013	0	33	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
160	8905	7763.57	1141.43	18	17	2	8/19/2013	0	45	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
161	7233	7254.96	-21.96	18	17	2	8/19/2013	0	57	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
162	6167	7196.95	-1029.95	18	17	2	8/19/2013	0	69	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
163	10707	13614.04	-2907.04	19	19	3	10/31/2013	0	9	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	0	1	0
164	8661	10635.00	-1974.00	19	19	3	10/31/2013	0	21	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	0	1	0
165	6811	8819.20	-2008.20	19	19	3	10/31/2013	0	33	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	0	1	0

166	5007	7763.57	-2756.57	19	19	3	10/31/2013	0	45	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Con	0	0	0		1	0
167	4924	7254.96	-2330.96	19	19	3	10/31/2013	0	57	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Con	0	0	0		1	0
168	5014	7196.95	-2182.95	19	19	3	10/31/2013	0	69	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Con	0	0	0		1	0
169	15533	13088.72	2444.28	20	20	3	11/19/2013	0	9	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Con	0	0	1		1	0
170	10938	10487.72	450.28	20	20	3	11/19/2013	0	21	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Con	0	0	1		1	0
171	10912	8920.84	1991.16	20	20	3	11/19/2013	0	33	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Con	0	0	1		1	0
172	7992	8055.10	-63.10	20	20	3	11/19/2013	0	45	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Con	0	0	1		1	0
173	8322	7721.06	600.94	20	20	3	11/19/2013	0	57	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Con	0	0	1		1	0
174	10013	7856.41	2156.59	20	20	3	11/19/2013	0	69	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Con	0	0	1		1	0
181	12188	11881.14	306.86	22	22	3	11/25/2013	0	9	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
182	12597	10235.99	2361.01	22	22	3	11/25/2013	0	21	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
183	12111	9361.44	2749.56	22	22	3	11/25/2013	0	33	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
184	11301	9088.59	2212.41	22	22	3	11/25/2013	0	45	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
185	11004	9366.79	1637.21	22	22	3	11/25/2013	0	57	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
186	15187	10247.69	4939.31	22	22	3	11/25/2013	0	69	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	0	0	0		1	1
175	14498	15163.61	-665.61	21	21	3	12/4/2013	0	9	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
176	15403	12979.83	2423.17	21	21	3	12/4/2013	0	21	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
177	13801	11794.42	2006.58	21	21	3	12/4/2013	0	33	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
178	14176	11376.92	2799.08	21	21	3	12/4/2013	0	45	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
179	14959	11649.67	3309.33	21	21	3	12/4/2013	0	57	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
180	15046	12663.20	2382.80	21	21	3	12/4/2013	0	69	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
55	7476	13614.04	-6138.04	4R	4	1	12/12/2013	1	9	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
56	6938	10635.00	-3697.00	4R	4	1	12/12/2013	1	21	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
57	6832	8819.20	-1987.20	4R	4	1	12/12/2013	1	33	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
58	5689	7763.57	-2074.57	4R	4	1	12/12/2013	1	45	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
59	4816	7254.96	-2438.96	4R	4	1	12/12/2013	1	57	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
60	5860	7196.95	-1336.95	4R	4	1	12/12/2013	1	69	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
37	9328	15163.61	-5835.61	2R	2	1	12/16/2013	1	9	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
38	9291	12979.83	-3688.83	2R	2	1	12/16/2013	1	21	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
39	12158	11794.42	363.58	2R	2	1	12/16/2013	1	33	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
40	9621	11376.92	-1755.92	2R	2	1	12/16/2013	1	45	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
41	10153	11649.67	-1496.67	2R	2	1	12/16/2013	1	57	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
42	16717	12663.20	4053.80	2R	2	1	12/16/2013	1	69	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	0	0	1		1	1
205	10921	11881.14	-960.14	26	26	3	12/18/2013	0	9	1	22 Tape	Rohacell	Rohacell - 1	Tape Comp	0	0	1		1	0
206	15926	10235.99	5690.01	26	26	3	12/18/2013	0	21	1	22 Tape	Rohacell	Rohacell - 1	Tape Comp	0	0	1		1	0
207	13369	9361.44	4007.56	26	26	3	12/18/2013	0	33	1	22 Tape	Rohacell	Rohacell - 1	Tape Comp	0	0	1		1	0
208	10124	9088.59	1035.41	26	26	3	12/18/2013	0	45	1	22 Tape	Rohacell	Rohacell - 1	Tape Comp	0	0	1		1	0
209	12541	9366.79	3174.21	26	26	3	12/18/2013	0	57	1	22 Tape	Rohacell	Rohacell - 1	Tape Comp	0	0	1		1	0
210	13214	10247.69	2966.31	26	26	3	12/18/2013	0	69	1	22 Tape	Rohacell	Rohacell - 1	Tape Comp	0	0	1		1	0
103	13582	13088.72	493.28	10R	10	1	1/16/2014	1	9	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
104	11327	10487.72	839.28	10R	10	1	1/16/2014	1	21	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
105	8538	8920.84	-382.84	10R	10	1	1/16/2014	1	33	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
106	8628	8055.10	572.90	10R	10	1	1/16/2014	1	45	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
107	7586	7721.06	-135.06	10R	10	1	1/16/2014	1	57	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
108	9024	7856.41	1167.59	10R	10	1	1/16/2014	1	69	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	0	0	0		1	1
91	10702	13088.72	-2386.72	9R	9	1	1/23/2014	1	9	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
92	10450	10487.72	-37.72	9R	9	1	1/23/2014	1	21	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
93	8200	8920.84	-720.84	9R	9	1	1/23/2014	1	33	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
94	7486	8055.10	-569.10	9R	9	1	1/23/2014	1	45	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
95	8366	7721.06	644.94	9R	9	1	1/23/2014	1	57	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
96	7389	7856.41	-467.41	9R	9	1	1/23/2014	1	69	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	0	0	1		1	1
187	6571	13088.72	-6517.72	23	23	3	4/18/2014	0	9	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
188	4937	10487.72	-5550.72	23	23	3	4/18/2014	0	21	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
189	4457	8920.84	-4463.84	23	23	3	4/18/2014	0	33	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
190	3925	8055.10	-4130.10	23	23	3	4/18/2014	0	45	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
191	3365	7721.06	-4356.06	23	23	3	4/18/2014	0	57	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
192	4136	7856.41	-3720.41	23	23	3	4/18/2014	0	69	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	0		1	1
193	16318	13088.72	3229.28	24	24	3	4/22/2014	0	9	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
194	11694	10487.72	1206.28	24	24	3	4/22/2014	0	21	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
195	10038	8920.84	1117.16	24	24	3	4/22/2014	0	33	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
196	8181	8055.10	125.90	24	24	3	4/22/2014	0	45	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
197	8493	7721.06	771.94	24	24	3	4/22/2014	0	57	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
198	9479	7856.41	1622.59	24	24	3	4/22/2014	0	69	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	0	0	1		1	1
199	10395	13614.04	-3219.04	25	25	3	6/10/2014	0	9	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Con	0	0	1		1	0
200	6624	10635.00	-4011.00	25	25	3	6/10/2014	0	21	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Con	0	0	1		1	0

201	5766	8819.20	-3053.20	25	25	3	6/10/2014	0	33	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	1	1	0
202	4782	7763.57	-2981.57	25	25	3	6/10/2014	0	45	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	1	1	0
203	5308	7254.96	-1946.96	25	25	3	6/10/2014	0	57	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	1	1	0
204	4303	7196.95	-2893.95	25	25	3	6/10/2014	0	69	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Corr	0	0	1	1	0
235	28490	13614.04	14875.96	A05	17	4	8/20/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
236	19259	10635.00	8624.00	A05	17	4	8/20/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
237	14063	8819.20	5243.80	A05	17	4	8/20/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
238	11892	7763.57	4128.43	A05	17	4	8/20/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
239	10860	7254.96	3605.04	A05	17	4	8/20/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
240	9224	7196.95	2027.05	A05	17	4	8/20/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	0	0	1	1	1
265	15731	13088.72	2642.28	A10	12	4	8/21/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
266	17244	10487.72	6756.28	A10	12	4	8/21/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
267	12947	8920.84	4026.16	A10	12	4	8/21/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
268	12470	8055.10	4414.90	A10	12	4	8/21/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
269	12688	7721.06	4966.94	A10	12	4	8/21/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
270	10113	7856.41	2256.59	A10	12	4	8/21/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	1	1	1
211	8801	11881.14	-3080.14	A01	8	4	8/25/2014	1	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
212	12045	10235.99	1809.01	A01	8	4	8/25/2014	1	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
213	9947	9361.44	585.56	A01	8	4	8/25/2014	1	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
214	7338	9088.59	-1750.59	A01	8	4	8/25/2014	1	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
215	8401	9366.79	-965.79	A01	8	4	8/25/2014	1	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
216	8715	10247.69	-1532.69	A01	8	4	8/25/2014	1	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	0	0	1	1	1
247	12017	13614.04	-1597.04	A07	18	4	8/26/2014	1	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
248	12631	10635.00	1996.00	A07	18	4	8/26/2014	1	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
249	12103	8819.20	3283.80	A07	18	4	8/26/2014	1	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
250	9114	7763.57	1350.43	A07	18	4	8/26/2014	1	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
251	9785	7254.96	2530.04	A07	18	4	8/26/2014	1	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
252	10422	7196.95	3225.05	A07	18	4	8/26/2014	1	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	1	1	1
253	12610	13088.72	-478.72	A08	11	4	8/26/2014	1	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
254	8942	10487.72	-1545.72	A08	11	4	8/26/2014	1	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
255	7914	8920.84	-1006.84	A08	11	4	8/26/2014	1	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
256	6133	8055.10	-1922.10	A08	11	4	8/26/2014	1	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
257	7057	7721.06	-664.06	A08	11	4	8/26/2014	1	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
258	7789	7856.41	-67.41	A08	11	4	8/26/2014	1	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	0	0	1	1	1
223	9408	13330.40	-3922.40	A03	P1	4	8/27/2014	2	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
224	10782	11391.31	-609.31	A03	P1	4	8/27/2014	2	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
225	9279	10333.43	-1054.43	A03	P1	4	8/27/2014	2	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
226	8970	9950.77	-980.77	A03	P1	4	8/27/2014	2	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
227	9392	10172.07	-780.07	A03	P1	4	8/27/2014	2	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
228	12381	11038.31	1342.69	A03	P1	4	8/27/2014	2	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	0	1	1	1	1
229	12017	13330.40	-1313.40	A04	P1	4	9/2/2014	3	9	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
230	10233	11391.31	-1158.31	A04	P1	4	9/2/2014	3	21	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
231	8206	10333.43	-2127.43	A04	P1	4	9/2/2014	3	33	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
232	6336	9950.77	-3614.77	A04	P1	4	9/2/2014	3	45	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
233	5420	10172.07	-4752.07	A04	P1	4	9/2/2014	3	57	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
234	5809	11038.31	-5229.31	A04	P1	4	9/2/2014	3	69	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1
241	9028	13614.04	-4586.04	A06	17	4	9/3/2014	2	9	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
242	10150	10635.00	-485.00	A06	17	4	9/3/2014	2	21	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
243	9472	8819.20	652.80	A06	17	4	9/3/2014	2	33	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
244	10677	7763.57	2913.43	A06	17	4	9/3/2014	2	45	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
245	11652	7254.96	4397.04	A06	17	4	9/3/2014	2	57	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
246	10981	7196.95	3784.05	A06	17	4	9/3/2014	2	69	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1
259	18346	13088.72	5257.28	A09	11	4	9/4/2014	2	9	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
260	10158	10487.72	-329.72	A09	11	4	9/4/2014	2	21	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
261	6601	8920.84	-2319.84	A09	11	4	9/4/2014	2	33	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
262	6162	8055.10	-1893.10	A09	11	4	9/4/2014	2	45	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
263	6596	7721.06	-1125.06	A09	11	4	9/4/2014	2	57	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
264	6488	7856.41	-1368.41	A09	11	4	9/4/2014	2	69	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1
217	9217	11881.14	-2664.14	A02	8	4	9/5/2014	2	9	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
218	8904	10235.99	-1331.99	A02	8	4	9/5/2014	2	21	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
219	7978	9361.44	-1383.44	A02	8	4	9/5/2014	2	33	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
220	7338	9088.59	-1750.59	A02	8	4	9/5/2014	2	45	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
221	5774	9366.79	-3592.79	A02	8	4	9/5/2014	2	57	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1
222	5433	10247.69	-4814.69	A02	8	4	9/5/2014	2	69	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1

Max ESD Disp

Variable	**Maximum ESD Displacement**
Transformation	**log(MaxESDDisp)**
Table	Other Preliminary Parameters
Model File	150127 1600 MaxESDDisp Dist2 Dist x CL noTB Plate.jrp
Excluded Values	Test P4 Channel 4: Clear low outlier; excluded by analyst without SME approval
	Tests 27, 28 not used in model creation; used as confirmation points.
Model	Simple T/B random var

```
Exp(
1.88508105265126 + -0.004288238884622233 * Distance from LSC +
Match( .LSC Core Load 10 -0.181783869892254 22 0.181783869892254 . ) + (
Distance from LSC - 39.022304832713 8) * Match( .LSC Core Load
10 0.001746232175239 17
22 -0.001746232175239 17
) + ( Distance from LSC - 39.022304832713 8) * ((Distance from LSC -
39.022304832713 8) * -0.000177622933837467) +
Match( .Aluminum LSC Plate 0 -0.550041910060047 1 0.550041910060047 . )
)
```

Table of Estimates

Average of Pred MaxESDDisp Dist2 Dist x CL noTB Plate			Distance from LSC					
LSC Core Load	**Aluminum LSC Plate**	**LSC Plate**	**9**	**21**	**33**	**45**	**57**	**69**
10	0	Fabric Composite	2.465	2.649	2.704	2.623	2.418	2.117
10	1	Aluminum	7.405	7.958	8.124	7.881	7.264	6.361
22	0	Fabric Composite	3.938	4.057	3.972	3.695	3.266	2.743
22	0	Tape Composite	3.938	4.057	3.972	3.695	3.266	2.743
22	1	Aluminum	11.830	12.190	11.935	11.102	9.813	8.240

Count of Pred MaxESDDisp Dist2 Dist x CL noTB Plate			Distance from LSC					
LSC Core Load	**Aluminum LSC Plate**	**LSC Plate**	**9**	**21**	**33**	**45**	**57**	**69**
10	0	Fabric Composite	2	2	2	2	2	2
10	1	Aluminum	32	32	32	32	32	32
22	0	Fabric Composite	4	4	4	4	4	4
22	0	Tape Composite	2	2	2	2	2	2
22	1	Aluminum	50	50	50	50	50	50

Row Labels	Count of Pred MaxESDDisp Dist2 Dist x CL noTB Plate
2.12	2
2.42	2
2.46	2
2.62	2
2.65	2
2.70	2
2.74	6
3.27	6
3.70	6
3.94	6
3.97	6
4.06	6
6.36	32
7.26	32
7.41	32
7.88	32
7.96	32
8.12	32
8.24	50
9.81	50
11.10	50
11.83	50
11.93	50
12.19	50
Grand Total	**540**

Value omitted

c	Max ESD Displace	Pred MaxESDDisp Dist2 Dist x CL noTB Plate	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Sensor Vert Posn T-B	Panel Thicknss	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Aluminum LSC Plate	Acoustic Damped	Spliced LSC	Sever	0 Degree	Channel
1	7.69	7.41	0.28	P1	P1	0	8/10/2012	0	9	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	1
2	7.97	7.41	0.56	P1	P1	0	8/10/2012	0	9	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	2
3	7.6	7.96	-0.36	P1	P1	0	8/10/2012	0	21	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	3
4	11.95	7.96	3.99	P1	P1	0	8/10/2012	0	21	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	4
5	6.97	8.12	-1.15	P1	P1	0	8/10/2012	0	33	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	5
6	7.26	8.12	-0.86	P1	P1	0	8/10/2012	0	33	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	6
7	7.02	7.88	-0.86	P1	P1	0	8/10/2012	0	45	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	7
8	5.16	7.88	-2.72	P1	P1	0	8/10/2012	0	45	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	8
9	5.93	7.26	-1.33	P1	P1	0	8/10/2012	0	57	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	9
10	6.71	7.26	-0.55	P1	P1	0	8/10/2012	0	57	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	10
11	9.94	6.36	3.58	P1	P1	0	8/10/2012	0	69	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	11
12	6.39	6.36	0.03	P1	P1	0	8/10/2012	0	69	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	12
13	15.68	11.83	3.85	P2	P1	0	8/16/2012	1	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	1
14	7.09	11.83	-4.74	P2	P1	0	8/16/2012	1	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	2
15	8.49	12.19	-3.70	P2	P1	0	8/16/2012	1	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	3
16	9.15	12.19	-3.04	P2	P1	0	8/16/2012	1	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	4
17	11.67	11.93	-0.26	P2	P1	0	8/16/2012	1	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	5
18	12.15	11.93	0.22	P2	P1	0	8/16/2012	1	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	6
19	17.14	11.10	6.04	P2	P1	0	8/16/2012	1	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	7
20	14.33	11.10	3.23	P2	P1	0	8/16/2012	1	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	8
21	14.1	9.81	4.29	P2	P1	0	8/16/2012	1	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	9
22	9.77	9.81	-0.04	P2	P1	0	8/16/2012	1	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	10
23	15.62	8.24	7.38	P2	P1	0	8/16/2012	1	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	11
24	14.45	8.24	6.21	P2	P1	0	8/16/2012	1	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	12
25	7.39	7.41	-0.02	P3	P3	0	9/10/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
26	6.07	7.41	-1.34	P3	P3	0	9/10/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
27	4.88	7.96	-3.08	P3	P3	0	9/10/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
28	5.07	7.96	-2.89	P3	P3	0	9/10/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
29	6.1	8.12	-2.02	P3	P3	0	9/10/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
30	6.18	8.12	-1.94	P3	P3	0	9/10/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
31	20.83	7.88	12.95	P3	P3	0	9/10/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
32	10.12	7.88	2.24	P3	P3	0	9/10/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
33	3.58	7.26	-3.68	P3	P3	0	9/10/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
34	7.46	7.26	0.20	P3	P3	0	9/10/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
35	3.07	6.36	-3.29	P3	P3	0	9/10/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
36	5.18	6.36	-1.18	P3	P3	0	9/10/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
37	14.83	7.41	7.42	P4	P4	0	11/30/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
38	9.93	7.41	2.52	P4	P4	0	11/30/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
39	11.24	7.96	3.28	P4	P4	0	11/30/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
40	0	7.96	-7.96	P4	P4	0	11/30/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
41	10.08	8.12	1.96	P4	P4	0	11/30/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
42	10.27	8.12	2.15	P4	P4	0	11/30/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
43	7.46	7.88	-0.42	P4	P4	0	11/30/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
44	9.5	7.88	1.62	P4	P4	0	11/30/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
45	10.8	7.26	3.54	P4	P4	0	11/30/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
46	25.89	7.26	18.63	P4	P4	0	11/30/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
47	33.79	6.36	27.43	P4	P4	0	11/30/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
48	11.31	6.36	4.95	P4	P4	0	11/30/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
49	7.43	7.41	0.02	P5	P5	0	12/5/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
50	12.88	7.41	5.47	P5	P5	0	12/5/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
51	11.87	7.96	3.91	P5	P5	0	12/5/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
52	14.21	7.96	6.25	P5	P5	0	12/5/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
53	16.37	8.12	8.25	P5	P5	0	12/5/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
54	17.36	8.12	9.24	P5	P5	0	12/5/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
55	15.26	7.88	7.38	P5	P5	0	12/5/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
56	14.58	7.88	6.70	P5	P5	0	12/5/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
57	12.75	7.26	5.49	P5	P5	0	12/5/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
58	19.83	7.26	12.57	P5	P5	0	12/5/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
59	12.15	6.36	5.79	P5	P5	0	12/5/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
60	10.54	6.36	4.18	P5	P5	0	12/5/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
61	20.61	7.41	13.20	1	1	1	1/23/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
62	19.65	7.41	12.24	1	1	1	1/23/2013	0	9	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
63	11.8	7.96	3.84	1	1	1	1/23/2013	0	21	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3

Variance Components	Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev
	Sensor Vert Posn T-B	0.0514975	**0.0049875**	0.0075628	-0.009835	0.01981	**1.5%**	**0.070622**
	Test No[LSC Core Load,Aluminum LSC Plate,Panel No]	2.0174722	**0.1953922**	0.1011601	-0.002878	0.393662	**58.2%**	**0.442032**
	Panel No	0.3987081	**0.0386149**	0.1074366	-0.171957	0.249187	**11.5%**	**0.196507**
	Residual		**0.09685**	0.0061938	0.085771	0.110236	**28.8%**	**0.311207**
	Total		**0.3358446**	0.0560643	0.248271	0.479813	**100.0%**	**0.579521**
		0.1018375					30.3%	**0.31912**

Alternate Model	Simple T/B fixed var	Exp(	
			1.88510332632982 + -0.00428770641895911 * .Distance from LSC +
			Match(:Name("Sensor Vert Posn T-B")
			B -0.0517092529959019
			T 0.0517092529959019
			.
			) + Match(:LSC Core Load 10 -0.181779168472158 22 0.181779168472158 .) +
			(:Distance from LSC - 39.0223048327138) * Match(:LSC Core Load
			10 0.00174676530378358
			22 -0.00174676530378358
			.
			) + (Distance from LSC - 39.0223048327138) * (Distance from LSC -
			39.0223048327138) * -0.000177638654225502 + Match(:Aluminum LSC Plate
			0 -0.5499967481217 8
			1 0.5499967481217 8
			.
		)	

64	11.08	7.96	3.12	1	1	1	1/23/2013	0	21 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
65	21.46	8.12	13.34	1	1	1	1/23/2013	0	33 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
66	16.74	8.12	8.62	1	1	1	1/23/2013	0	33 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
67	13.58	7.88	5.70	1	1	1	1/23/2013	0	45 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
68	12.33	7.88	4.45	1	1	1	1/23/2013	0	45 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
69	20.17	7.26	12.91	1	1	1	1/23/2013	0	57 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
70	17.09	7.26	9.83	1	1	1	1/23/2013	0	57 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
71	13.71	6.36	7.35	1	1	1	1/23/2013	0	69 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
72	12.64	6.36	6.28	1	1	1	1/23/2013	0	69 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
73	9.2	7.41	1.79	2	2	1	1/29/2013	0	9 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
74	8.97	7.41	1.56	2	2	1	1/29/2013	0	9 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
75	12.69	7.96	4.73	2	2	1	1/29/2013	0	21 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
76	7.08	7.96	-0.88	2	2	1	1/29/2013	0	21 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
77	12.79	8.12	4.67	2	2	1	1/29/2013	0	33 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
78	8.73	8.12	0.61	2	2	1	1/29/2013	0	33 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
79	8.7	7.88	0.82	2	2	1	1/29/2013	0	45 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
80	8.58	7.88	0.70	2	2	1	1/29/2013	0	45 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
81	13.37	7.26	6.11	2	2	1	1/29/2013	0	57 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
82	7.93	7.26	0.67	2	2	1	1/29/2013	0	57 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
83	7.27	6.36	0.91	2	2	1	1/29/2013	0	69 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
84	6.44	6.36	0.08	2	2	1	1/29/2013	0	69 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
109	6.14	11.83	-5.69	4	4	1	2/5/2013	0	9 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
110	3.58	11.83	-8.25	4	4	1	2/5/2013	0	9 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
111	6.75	12.19	-5.44	4	4	1	2/5/2013	0	21 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
112	4.81	12.19	-7.38	4	4	1	2/5/2013	0	21 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
113	6.43	11.93	-5.50	4	4	1	2/5/2013	0	33 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
114	3.53	11.93	-8.40	4	4	1	2/5/2013	0	33 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
115	6.67	11.10	-4.43	4	4	1	2/5/2013	0	45 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
116	5.29	11.10	-5.81	4	4	1	2/5/2013	0	45 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
117	4.16	9.81	-5.65	4	4	1	2/5/2013	0	57 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
118	4.82	9.81	-4.99	4	4	1	2/5/2013	0	57 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
119	2.65	8.24	-5.59	4	4	1	2/5/2013	0	69 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
120	2.71	8.24	-5.53	4	4	1	2/5/2013	0	69 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
97	7.18	7.41	-0.23	3	3	1	2/8/2013	0	9 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
98	5.35	7.41	-2.06	3	3	1	2/8/2013	0	9 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
99	8.69	7.96	0.73	3	3	1	2/8/2013	0	21 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
100	6.29	7.96	-1.67	3	3	1	2/8/2013	0	21 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
101	12.7	8.12	4.58	3	3	1	2/8/2013	0	33 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
102	5.33	8.12	-2.79	3	3	1	2/8/2013	0	33 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
103	10.19	7.88	2.31	3	3	1	2/8/2013	0	45 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
104	7.3	7.88	-0.58	3	3	1	2/8/2013	0	45 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
105	9.92	7.26	2.66	3	3	1	2/8/2013	0	57 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
106	9.46	7.26	2.20	3	3	1	2/8/2013	0	57 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
107	8.21	6.36	1.85	3	3	1	2/8/2013	0	69 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
108	5.47	6.36	-0.89	3	3	1	2/8/2013	0	69 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
133	8.65	11.83	-3.18	5	5	1	2/22/2013	0	9 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
134	19.6	11.83	7.77	5	5	1	2/22/2013	0	9 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
135	19.18	12.19	6.99	5	5	1	2/22/2013	0	21 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
136	6.83	12.19	-5.36	5	5	1	2/22/2013	0	21 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
137	16	11.93	4.07	5	5	1	2/22/2013	0	33 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
138	12.34	11.93	0.41	5	5	1	2/22/2013	0	33 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
139	16.74	11.10	5.64	5	5	1	2/22/2013	0	45 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
140	17.01	11.10	5.91	5	5	1	2/22/2013	0	45 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
141	13.27	9.81	3.46	5	5	1	2/22/2013	0	57 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
142	17.03	9.81	7.22	5	5	1	2/22/2013	0	57 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
143	13.28	8.24	5.04	5	5	1	2/22/2013	0	69 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
144	15.26	8.24	7.02	5	5	1	2/22/2013	0	69 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
145	29.29	11.83	17.46	6	6	1	5/8/2013	0	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
146	43.64	11.83	31.81	6	6	1	5/8/2013	0	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
147	32.95	12.19	20.76	6	6	1	5/8/2013	0	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
148	36.2	12.19	24.01	6	6	1	5/8/2013	0	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
149	31.12	11.93	19.19	6	6	1	5/8/2013	0	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
150	37.71	11.93	25.78	6	6	1	5/8/2013	0	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
151	34.7	11.10	23.60	6	6	1	5/8/2013	0	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
152	26.66	11.10	15.56	6	6	1	5/8/2013	0	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
153	42.83	9.81	33.02	6	6	1	5/8/2013	0	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
154	33.46	9.81	23.65	6	6	1	5/8/2013	0	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
155	20.7	8.24	12.46	6	6	1	5/8/2013	0	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
156	21.22	8.24	12.98	6	6	1	5/8/2013	0	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
157	21.16	11.83	9.33	7	7	1	5/9/2013	0	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
158	24.38	11.83	12.55	7	7	1	5/9/2013	0	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
159	22.98	12.19	10.79	7	7	1	5/9/2013	0	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
160	17.49	12.19	5.30	7	7	1	5/9/2013	0	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
161	21.67	11.93	9.74	7	7	1	5/9/2013	0	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
162	14.82	11.93	2.89	7	7	1	5/9/2013	0	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
163	22.54	11.10	11.44	7	7	1	5/9/2013	0	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
164	21.16	11.10	10.06	7	7	1	5/9/2013	0	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
165	17.26	9.81	7.45	7	7	1	5/9/2013	0	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
166	20.36	9.81	10.55	7	7	1	5/9/2013	0	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
167	14.02	8.24	5.78	7	7	1	5/9/2013	0	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
168	15.17	8.24	6.93	7	7	1	5/9/2013	0	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
169	7.57	7.41	0.16	8	8	1	5/16/2013	0	9 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
170	4.74	7.41	-2.67	8	8	1	5/16/2013	0	9 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
171	8.81	7.96	0.85	8	8	1	5/16/2013	0	21 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
172	6.45	7.96	-1.51	8	8	1	5/16/2013	0	21 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4

173	16.68	8.12	8.56	8	8	1	5/16/2013	0	33 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
174	7.18	8.12	-0.94	8	8	1	5/16/2013	0	33 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
175	15.32	7.88	7.44	8	8	1	5/16/2013	0	45 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
176	6.69	7.88	-1.19	8	8	1	5/16/2013	0	45 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
177	8.74	7.26	1.48	8	8	1	5/16/2013	0	57 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
178	5.33	7.26	-1.93	8	8	1	5/16/2013	0	57 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
179	4.98	6.36	-1.38	8	8	1	5/16/2013	0	69 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
180	6.7	6.36	0.34	8	8	1	5/16/2013	0	69 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
181	11.28	11.83	-0.55	9	9	1	5/17/2013	0	9 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
182	10.59	11.83	-1.24	9	9	1	5/17/2013	0	9 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
183	15.25	12.19	3.06	9	9	1	5/17/2013	0	21 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
184	17.25	12.19	5.06	9	9	1	5/17/2013	0	21 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
185	21.81	11.93	9.88	9	9	1	5/17/2013	0	33 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
186	12.52	11.93	0.59	9	9	1	5/17/2013	0	33 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
187	19.08	11.10	7.98	9	9	1	5/17/2013	0	45 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
188	15.92	11.10	4.82	9	9	1	5/17/2013	0	45 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
189	10.22	9.81	0.41	9	9	1	5/17/2013	0	57 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
190	8.74	9.81	-1.07	9	9	1	5/17/2013	0	57 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
191	11.4	8.24	3.16	9	9	1	5/17/2013	0	69 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
192	9.66	8.24	1.42	9	9	1	5/17/2013	0	69 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
205	18.03	7.41	10.62	10	10	1	5/29/2013	0	9 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
206	22.91	7.41	15.50	10	10	1	5/29/2013	0	9 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
207	24.86	7.96	16.90	10	10	1	5/29/2013	0	21 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
208	10.15	7.96	2.19	10	10	1	5/29/2013	0	21 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
209	22.47	8.12	14.35	10	10	1	5/29/2013	0	33 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
210	15.11	8.12	6.99	10	10	1	5/29/2013	0	33 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
211	26.28	7.88	18.40	10	10	1	5/29/2013	0	45 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
212	23	7.88	15.12	10	10	1	5/29/2013	0	45 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
213	11.59	7.26	4.33	10	10	1	5/29/2013	0	57 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
214	13.81	7.26	6.55	10	10	1	5/29/2013	0	57 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
215	11.5	6.36	5.14	10	10	1	5/29/2013	0	69 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
216	9.26	6.36	2.90	10	10	1	5/29/2013	0	69 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
229	7.18	7.41	-0.23	11	11	2	5/31/2013	0	9 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	1
230	4.32	7.41	-3.09	11	11	2	5/31/2013	0	9 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	2
231	6.03	7.96	-1.93	11	11	2	5/31/2013	0	21 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	3
232	4.95	7.96	-3.01	11	11	2	5/31/2013	0	21 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	4
233	8.58	8.12	0.46	11	11	2	5/31/2013	0	33 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	5
234	7.65	8.12	-0.47	11	11	2	5/31/2013	0	33 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	6
235	8.8	7.88	0.92	11	11	2	5/31/2013	0	45 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	7
236	6.89	7.88	-0.99	11	11	2	5/31/2013	0	45 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	8
237	5.04	7.26	-2.22	11	11	2	5/31/2013	0	57 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	9
238	4.28	7.26	-2.98	11	11	2	5/31/2013	0	57 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	10
239	4.62	6.36	-1.74	11	11	2	5/31/2013	0	69 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	11
240	5.52	6.36	-0.84	11	11	2	5/31/2013	0	69 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	12
241	9.81	11.83	-2.02	12	14	2	6/28/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
242	10.09	11.83	-1.74	12	14	2	6/28/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
243	10.21	12.19	-1.98	12	14	2	6/28/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
244	11.09	12.19	-1.10	12	14	2	6/28/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
245	9.03	11.93	-2.90	12	14	2	6/28/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
246	9.91	11.93	-2.02	12	14	2	6/28/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
247	8.35	11.10	-2.75	12	14	2	6/28/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
248	8.66	11.10	-2.44	12	14	2	6/28/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
249	9.26	9.81	-0.55	12	14	2	6/28/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
250	4.3	9.81	-5.51	12	14	2	6/28/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
251	6.53	8.24	-1.71	12	14	2	6/28/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
252	4.47	8.24	-3.77	12	14	2	6/28/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
253	3.2	7.41	-4.21	13	13	2	7/16/2013	0	9 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
254	3.11	7.41	-4.30	13	13	2	7/16/2013	0	9 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
255	4.11	7.96	-3.85	13	13	2	7/16/2013	0	21 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
256	3.99	7.96	-3.97	13	13	2	7/16/2013	0	21 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
257	4.52	8.12	-3.60	13	13	2	7/16/2013	0	33 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
258	2.71	8.12	-5.41	13	13	2	7/16/2013	0	33 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
259	1.88	7.88	-6.00	13	13	2	7/16/2013	0	45 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
260	3.58	7.88	-4.30	13	13	2	7/16/2013	0	45 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
261	4.01	7.26	-3.25	13	13	2	7/16/2013	0	57 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
262	2.83	7.26	-4.43	13	13	2	7/16/2013	0	57 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
263	4.03	6.36	-2.33	13	13	2	7/16/2013	0	69 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
264	2.79	6.36	-3.57	13	13	2	7/16/2013	0	69 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
265	13.81	11.83	1.98	14	12	2	7/17/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
266	13.37	11.83	1.54	14	12	2	7/17/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
267	13.91	12.19	1.72	14	12	2	7/17/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
268	10.48	12.19	-1.71	14	12	2	7/17/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
269	12.22	11.93	0.29	14	12	2	7/17/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
270	6.39	11.93	-5.54	14	12	2	7/17/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
271	8.61	11.10	-2.49	14	12	2	7/17/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
272	8.02	11.10	-3.08	14	12	2	7/17/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
273	6.53	9.81	-3.28	14	12	2	7/17/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
274	11.34	9.81	1.53	14	12	2	7/17/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
275	11.04	8.24	2.80	14	12	2	7/17/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
276	9.42	8.24	1.18	14	12	2	7/17/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12

277	11.97	11.83	0.14	15	16	2	7/18/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
278	10.8	11.83	-1.03	15	16	2	7/18/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
279	10.45	12.19	-1.74	15	16	2	7/18/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
280	8.72	12.19	-3.47	15	16	2	7/18/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
281	7.03	11.93	-4.90	15	16	2	7/18/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
282	5.38	11.93	-6.55	15	16	2	7/18/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
283	4.65	11.10	-6.45	15	16	2	7/18/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
284	10.76	11.10	-0.34	15	16	2	7/18/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
285	7.46	9.81	-2.35	15	16	2	7/18/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
286	6.08	9.81	-3.73	15	16	2	7/18/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
287	16.31	8.24	8.07	15	16	2	7/18/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
288	8.07	8.24	-0.17	15	16	2	7/18/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
289	12.48	11.83	0.65	16	18	2	7/23/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
290	11.66	11.83	-0.17	16	18	2	7/23/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
291	13.84	12.19	1.65	16	18	2	7/23/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
292	12.6	12.19	0.41	16	18	2	7/23/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
293	16.38	11.93	4.45	16	18	2	7/23/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
294	10.43	11.93	-1.50	16	18	2	7/23/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
295	8.6	11.10	-2.50	16	18	2	7/23/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
296	9.64	11.10	-1.46	16	18	2	7/23/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
297	9.99	9.81	0.18	16	18	2	7/23/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
298	10.51	9.81	0.70	16	18	2	7/23/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
299	9.72	8.24	1.48	16	18	2	7/23/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
300	10.2	8.24	1.96	16	18	2	7/23/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
301	5.65	7.41	-1.76	17	15	2	8/9/2013	0	9 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
302	6.16	7.41	-1.25	17	15	2	8/9/2013	0	9 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
303	10.57	7.96	2.61	17	15	2	8/9/2013	0	21 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
304	11.07	7.96	3.11	17	15	2	8/9/2013	0	21 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
305	10.84	8.12	2.72	17	15	2	8/9/2013	0	33 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
306	14.71	8.12	6.59	17	15	2	8/9/2013	0	33 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
307	10.21	7.88	2.33	17	15	2	8/9/2013	0	45 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
308	8.15	7.88	0.27	17	15	2	8/9/2013	0	45 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
309	6.13	7.26	-1.13	17	15	2	8/9/2013	0	57 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
310	5.32	7.26	-1.94	17	15	2	8/9/2013	0	57 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
311	9.76	6.36	3.40	17	15	2	8/9/2013	0	69 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
312	4.44	6.36	-1.92	17	15	2	8/9/2013	0	69 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
313	2.52	7.41	-4.89	18	17	2	8/19/2013	0	9 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
314	3.04	7.41	-4.37	18	17	2	8/19/2013	0	9 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
315	2.72	7.96	-5.24	18	17	2	8/19/2013	0	21 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
316	5.53	7.96	-2.43	18	17	2	8/19/2013	0	21 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
317	5.93	8.12	-2.19	18	17	2	8/19/2013	0	33 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
318	1.92	8.12	-6.20	18	17	2	8/19/2013	0	33 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
319	2.17	7.88	-5.71	18	17	2	8/19/2013	0	45 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
320	3.71	7.88	-4.17	18	17	2	8/19/2013	0	45 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
321	5.08	7.26	-2.18	18	17	2	8/19/2013	0	57 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
322	2.36	7.26	-4.90	18	17	2	8/19/2013	0	57 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
323	2.49	6.36	-3.87	18	17	2	8/19/2013	0	69 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
324	4.55	6.36	-1.81	18	17	2	8/19/2013	0	69 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
325	5.79	2.46	3.33	19	19	3	10/31/2013	0	9 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	1
326	5.15	2.46	2.69	19	19	3	10/31/2013	0	9 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	2
327	4.03	2.65	1.38	19	19	3	10/31/2013	0	21 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	3
328	4.15	2.65	1.50	19	19	3	10/31/2013	0	21 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	4
329	3.96	2.70	1.26	19	19	3	10/31/2013	0	33 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	5
330	3.52	2.70	0.82	19	19	3	10/31/2013	0	33 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	6
331	2.46	2.62	-0.16	19	19	3	10/31/2013	0	45 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	7
332	4.06	2.62	1.44	19	19	3	10/31/2013	0	45 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	8
333	4.7	2.42	2.28	19	19	3	10/31/2013	0	57 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	9
334	4.03	2.42	1.61	19	19	3	10/31/2013	0	57 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	10
335	1.16	2.12	-0.96	19	19	3	10/31/2013	0	69 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	11
336	1.74	2.12	-0.38	19	19	3	10/31/2013	0	69 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	12
337	10.34	3.94	6.40	20	20	3	11/19/2013	0	9 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	1
338	7.5	3.94	3.56	20	20	3	11/19/2013	0	9 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	2
339	6.9	4.06	2.84	20	20	3	11/19/2013	0	21 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	3
340	8.23	4.06	4.17	20	20	3	11/19/2013	0	21 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	4
341	5.99	3.97	2.02	20	20	3	11/19/2013	0	33 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	5
342	4.15	3.97	0.18	20	20	3	11/19/2013	0	33 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	6
343	5.13	3.70	1.43	20	20	3	11/19/2013	0	45 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	7
344	2.93	3.70	-0.77	20	20	3	11/19/2013	0	45 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	8
345	11.31	3.27	8.04	20	20	3	11/19/2013	0	57 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	9
346	11.29	3.27	8.02	20	20	3	11/19/2013	0	57 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	10
347	1.73	2.74	-1.01	20	20	3	11/19/2013	0	69 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	11
348	1.59	2.74	-1.15	20	20	3	11/19/2013	0	69 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	12
361	5.49	7.41	-1.92	22	22	3	11/25/2013	0	9 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	1
362	2.96	7.41	-4.45	22	22	3	11/25/2013	0	9 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	2
363	4.86	7.96	-3.10	22	22	3	11/25/2013	0	21 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	3
364	3.43	7.96	-4.53	22	22	3	11/25/2013	0	21 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	4
365	4.48	8.12	-3.64	22	22	3	11/25/2013	0	33 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	5
366	2.59	8.12	-5.53	22	22	3	11/25/2013	0	33 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	6
367	4.19	7.88	-3.69	22	22	3	11/25/2013	0	45 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	7
368	3.01	7.88	-4.87	22	22	3	11/25/2013	0	45 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	8
369	3.82	7.26	-3.44	22	22	3	11/25/2013	0	57 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	9
370	4.55	7.26	-2.71	22	22	3	11/25/2013	0	57 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	10
371	1.91	6.36	-4.45	22	22	3	11/25/2013	0	69 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	11
372	1.99	6.36	-4.37	22	22	3	11/25/2013	0	69 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	12
349	7.99	11.83	-3.84	21	21	3	12/4/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
350	9.33	11.83	-2.50	21	21	3	12/4/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2

351	11.5	12.19	-0.69		21	21	3	12/4/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
352	10.73	12.19	-1.46		21	21	3	12/4/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
353	11.75	11.93	-0.18		21	21	3	12/4/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
354	12.23	11.93	0.30		21	21	3	12/4/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
355	10.15	11.10	-0.95		21	21	3	12/4/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
356	9.07	11.10	-2.03		21	21	3	12/4/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
357	7.78	9.81	-2.03		21	21	3	12/4/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
358	6.85	9.81	-2.96		21	21	3	12/4/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
359	15.35	8.24	7.11		21	21	3	12/4/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
360	4.96	8.24	-3.28		21	21	3	12/4/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
121	6.52	11.83	-5.31	4R		4	1	12/12/2013	1	9 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
122	7.73	11.83	-4.10	4R		4	1	12/12/2013	1	9 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
123	11.27	12.19	-0.92	4R		4	1	12/12/2013	1	21 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
124	6.57	12.19	-5.62	4R		4	1	12/12/2013	1	21 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
125	11.99	11.93	0.06	4R		4	1	12/12/2013	1	33 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
126	7.06	11.93	-4.87	4R		4	1	12/12/2013	1	33 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
127	6.42	11.10	-4.68	4R		4	1	12/12/2013	1	45 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
128	8.88	11.10	-2.22	4R		4	1	12/12/2013	1	45 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
129	8.88	9.81	-0.93	4R		4	1	12/12/2013	1	57 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
130	5.85	9.81	-3.96	4R		4	1	12/12/2013	1	57 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
131	7.03	8.24	-1.21	4R		4	1	12/12/2013	1	69 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
132	3.54	8.24	-4.70	4R		4	1	12/12/2013	1	69 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
85	21.08	11.83	9.25	2R		2	1	12/16/2013	1	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
86	23.97	11.83	12.14	2R		2	1	12/16/2013	1	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
87	19.35	12.19	7.16	2R		2	1	12/16/2013	1	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
88	13.47	12.19	1.28	2R		2	1	12/16/2013	1	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
89	30.77	11.93	18.84	2R		2	1	12/16/2013	1	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
90	22.26	11.93	10.33	2R		2	1	12/16/2013	1	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
91	21.34	11.10	10.24	2R		2	1	12/16/2013	1	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
92	11.14	11.10	0.04	2R		2	1	12/16/2013	1	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
93	17.39	9.81	7.58	2R		2	1	12/16/2013	1	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
94	13.44	9.81	3.63	2R		2	1	12/16/2013	1	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
95	6.41	8.24	-1.83	2R		2	1	12/16/2013	1	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
96	11.3	8.24	3.06	2R		2	1	12/16/2013	1	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
409	1.81	3.94	-2.13		26	26	3	12/18/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	1
410	2.54	3.94	-1.40		26	26	3	12/18/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	2
411	2.46	4.06	-1.60		26	26	3	12/18/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	3
412	2.49	4.06	-1.57		26	26	3	12/18/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	4
413	2.22	3.97	-1.75		26	26	3	12/18/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	5
414	3.24	3.97	-0.73		26	26	3	12/18/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	6
415	3.95	3.70	0.25		26	26	3	12/18/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	7
416	2.46	3.70	-1.24		26	26	3	12/18/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	8
417	2.05	3.27	-1.22		26	26	3	12/18/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	9
418	2.27	3.27	-1.00		26	26	3	12/18/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	10
419	1.89	2.74	-0.85		26	26	3	12/18/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	11
420	1.29	2.74	-1.45		26	26	3	12/18/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	12
217	10.84	7.41	3.43	10R		10	1	1/16/2014	1	9 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	1
218	17.6	7.41	10.19	10R		10	1	1/16/2014	1	9 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	2
219	13.7	7.96	5.74	10R		10	1	1/16/2014	1	21 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	3
220	10.01	7.96	2.05	10R		10	1	1/16/2014	1	21 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	4
221	19.83	8.12	11.71	10R		10	1	1/16/2014	1	33 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	5
222	12.28	8.12	4.16	10R		10	1	1/16/2014	1	33 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	6
223	11.27	7.88	3.39	10R		10	1	1/16/2014	1	45 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	7
224	12.04	7.88	4.16	10R		10	1	1/16/2014	1	45 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	8
225	7.25	7.26	-0.01	10R		10	1	1/16/2014	1	57 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	9
226	16.29	7.26	9.03	10R		10	1	1/16/2014	1	57 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	10
227	8.47	6.36	2.11	10R		10	1	1/16/2014	1	69 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	11
228	15.64	6.36	9.28	10R		10	1	1/16/2014	1	69 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	12
193	12.68	11.83	0.85	9R		9	1	1/23/2014	1	9 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
194	8.6	11.83	-3.23	9R		9	1	1/23/2014	1	9 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
195	12.44	12.19	0.25	9R		9	1	1/23/2014	1	21 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
196	8.83	12.19	-3.36	9R		9	1	1/23/2014	1	21 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
197	11.25	11.93	-0.68	9R		9	1	1/23/2014	1	33 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
198	10.44	11.93	-1.49	9R		9	1	1/23/2014	1	33 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
199	9.22	11.10	-1.88	9R		9	1	1/23/2014	1	45 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
200	8.61	11.10	-2.49	9R		9	1	1/23/2014	1	45 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
201	5.59	9.81	-4.22	9R		9	1	1/23/2014	1	57 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
202	7.92	9.81	-1.89	9R		9	1	1/23/2014	1	57 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
203	5.64	8.24	-2.60	9R		9	1	1/23/2014	1	69 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
204	4.71	8.24	-3.53	9R		9	1	1/23/2014	1	69 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
373	5.5	7.41	-1.91		23	23	3	4/18/2014	0	9 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	1
374	3.7	7.41	-3.71		23	23	3	4/18/2014	0	9 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	2
375	2.38	7.96	-5.58		23	23	3	4/18/2014	0	21 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	3
376	4.39	7.96	-3.57		23	23	3	4/18/2014	0	21 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	4
377	3.61	8.12	-4.51		23	23	3	4/18/2014	0	33 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	5
378	2.14	8.12	-5.98		23	23	3	4/18/2014	0	33 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	6
379	6.06	7.88	-1.82		23	23	3	4/18/2014	0	45 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	7
380	3.27	7.88	-4.61		23	23	3	4/18/2014	0	45 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	8
381	3.12	7.26	-4.14		23	23	3	4/18/2014	0	57 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	9
382	3.68	7.26	-3.58		23	23	3	4/18/2014	0	57 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	10
383	5.16	6.36	-1.20		23	23	3	4/18/2014	0	69 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	11
384	3.28	6.36	-3.08		23	23	3	4/18/2014	0	69 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	12
385	10.04	11.83	-1.79		24	24	3	4/22/2014	0	9 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
386	8.57	11.83	-3.26		24	24	3	4/22/2014	0	9 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2

387	9.92	12.19	-2.27	24	24	3	4/22/2014	0	21 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
388	9.62	12.19	-2.57	24	24	3	4/22/2014	0	21 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
389	6.28	11.93	-5.85	24	24	3	4/22/2014	0	33 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
390	6.7	11.93	-5.23	24	24	3	4/22/2014	0	33 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
391	9.39	11.10	-1.71	24	24	3	4/22/2014	0	45 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
392	9.32	11.10	-1.78	24	24	3	4/22/2014	0	45 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
393	7.91	9.81	-1.90	24	24	3	4/22/2014	0	57 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
394	8.55	9.81	-1.26	24	24	3	4/22/2014	0	57 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
395	6.16	8.24	-2.08	24	24	3	4/22/2014	0	69 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
396	5.3	8.24	-2.94	24	24	3	4/22/2014	0	69 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
397	2.53	3.94	-1.41	25	25	3	6/10/2014	0	9 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	1
398	2.58	3.94	-1.36	25	25	3	6/10/2014	0	9 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	2
399	3.36	4.06	-0.70	25	25	3	6/10/2014	0	21 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	3
400	2.47	4.06	-1.59	25	25	3	6/10/2014	0	21 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	4
401	2.93	3.97	-1.04	25	25	3	6/10/2014	0	33 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	5
402	2.9	3.97	-1.07	25	25	3	6/10/2014	0	33 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	6
403	2.69	3.70	-1.01	25	25	3	6/10/2014	0	45 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	7
404	2.95	3.70	-0.75	25	25	3	6/10/2014	0	45 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	8
405	2.46	3.27	-0.81	25	25	3	6/10/2014	0	57 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	9
406	2.92	3.27	-0.35	25	25	3	6/10/2014	0	57 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	10
407	1.95	2.74	-0.79	25	25	3	6/10/2014	0	69 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	11
408	1.74	2.74	-1.00	25	25	3	6/10/2014	0	69 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	12
481	15.79	11.83	3.96	A05	17	4	8/20/2014	1	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
482	16.44	11.83	4.61	A05	17	4	8/20/2014	1	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
483	16.62	12.19	4.43	A05	17	4	8/20/2014	1	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
484	12.98	12.19	0.79	A05	17	4	8/20/2014	1	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
485	13	11.93	1.07	A05	17	4	8/20/2014	1	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
486	10.58	11.93	-1.35	A05	17	4	8/20/2014	1	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
487	13.13	11.10	2.03	A05	17	4	8/20/2014	1	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
488	14.58	11.10	3.48	A05	17	4	8/20/2014	1	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
489	12.51	9.81	2.70	A05	17	4	8/20/2014	1	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
490	12.11	9.81	2.30	A05	17	4	8/20/2014	1	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
491	12.24	8.24	4.00	A05	17	4	8/20/2014	1	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
492	12.05	8.24	3.81	A05	17	4	8/20/2014	1	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
433	7.98	11.83	-3.85	A10	12	4	8/21/2014	1	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	1
434	6.38	11.83	-5.45	A10	12	4	8/21/2014	1	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	2
435	9.41	12.19	-2.78	A10	12	4	8/21/2014	1	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	3
436	6.98	12.19	-5.21	A10	12	4	8/21/2014	1	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	4
437	12.4	11.93	0.47	A10	12	4	8/21/2014	1	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	5
438	9.05	11.93	-2.88	A10	12	4	8/21/2014	1	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	6
439	6.41	11.10	-4.69	A10	12	4	8/21/2014	1	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	7
440	7.43	11.10	-3.67	A10	12	4	8/21/2014	1	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	8
441	5.33	9.81	-4.48	A10	12	4	8/21/2014	1	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	9
442	7.55	9.81	-2.26	A10	12	4	8/21/2014	1	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	10
443	10.06	8.24	1.82	A10	12	4	8/21/2014	1	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	11
444	11.77	8.24	3.53	A10	12	4	8/21/2014	1	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	12
421	14.36	11.83	2.53	A01	8	4	8/25/2014	1	9 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
422	9.22	11.83	-2.61	A01	8	4	8/25/2014	1	9 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
423	17.02	12.19	4.83	A01	8	4	8/25/2014	1	21 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
424	11.95	12.19	-0.24	A01	8	4	8/25/2014	1	21 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
425	21.71	11.93	9.78	A01	8	4	8/25/2014	1	33 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
426	6.24	11.93	-5.69	A01	8	4	8/25/2014	1	33 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
427	10.52	11.10	-0.58	A01	8	4	8/25/2014	1	45 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
428	13.63	11.10	2.53	A01	8	4	8/25/2014	1	45 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
429	12.85	9.81	3.04	A01	8	4	8/25/2014	1	57 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
430	8.16	9.81	-1.65	A01	8	4	8/25/2014	1	57 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
431	9.52	8.24	1.28	A01	8	4	8/25/2014	1	69 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
432	9.73	8.24	1.49	A01	8	4	8/25/2014	1	69 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
505	13.41	11.83	1.58	A07	18	4	8/26/2014	1	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	1
506	8.52	11.83	-3.31	A07	18	4	8/26/2014	1	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	2
507	11.49	12.19	-0.70	A07	18	4	8/26/2014	1	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	3
508	12.85	12.19	0.66	A07	18	4	8/26/2014	1	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	4
509	14.99	11.93	3.06	A07	18	4	8/26/2014	1	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	5
510	29.18	11.93	17.25	A07	18	4	8/26/2014	1	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	6
511	13.78	11.10	2.68	A07	18	4	8/26/2014	1	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	7
512	20.19	11.10	9.09	A07	18	4	8/26/2014	1	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	8
513	13.08	9.81	3.27	A07	18	4	8/26/2014	1	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	9
514	18.45	9.81	8.64	A07	18	4	8/26/2014	1	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	10
515	8.57	8.24	0.33	A07	18	4	8/26/2014	1	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	11
516	13.51	8.24	5.27	A07	18	4	8/26/2014	1	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	12
517	15.7	11.83	3.87	A08	11	4	8/26/2014	1	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
518	11.61	11.83	-0.22	A08	11	4	8/26/2014	1	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
519	16.75	12.19	4.56	A08	11	4	8/26/2014	1	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
520	11.46	12.19	-0.73	A08	11	4	8/26/2014	1	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
521	10.42	11.93	-1.51	A08	11	4	8/26/2014	1	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
522	15.66	11.93	3.73	A08	11	4	8/26/2014	1	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6

523	23.14	11.10	12.04	A08		11	4	8/26/2014	1	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
524	22.74	11.10	11.64	A08		11	4	8/26/2014	1	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
525	14.06	9.81	4.25	A08		11	4	8/26/2014	1	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
526	7.7	9.81	-2.11	A08		11	4	8/26/2014	1	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
527	11.86	8.24	3.62	A08		11	4	8/26/2014	1	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
528	10.39	8.24	2.15	A08		11	4	8/26/2014	1	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
457	17.04	11.83	5.21	A03	P1		4	8/27/2014	2	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	1
458	5.63	11.83	-6.20	A03	P1		4	8/27/2014	2	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	2
459	12.54	12.19	0.35	A03	P1		4	8/27/2014	2	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	3
460	9.12	12.19	-3.07	A03	P1		4	8/27/2014	2	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	4
461	14.19	11.93	2.26	A03	P1		4	8/27/2014	2	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5
462	10.28	11.93	-1.65	A03	P1		4	8/27/2014	2	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	6
463	8.66	11.10	-2.44	A03	P1		4	8/27/2014	2	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	7
464	6.57	11.10	-4.53	A03	P1		4	8/27/2014	2	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	8
465	8.75	9.81	-1.06	A03	P1		4	8/27/2014	2	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	9
466	5.42	9.81	-4.39	A03	P1		4	8/27/2014	2	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	10
467	2.6	8.24	-5.64	A03	P1		4	8/27/2014	2	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	11
468	3.81	8.24	-4.43	A03	P1		4	8/27/2014	2	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	12
469	8.48	11.83	-3.35	A04	P1		4	9/2/2014	3	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
470	8.46	11.83	-3.37	A04	P1		4	9/2/2014	3	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	2
471	10.31	12.19	-1.88	A04	P1		4	9/2/2014	3	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	3
472	8.21	12.19	-3.98	A04	P1		4	9/2/2014	3	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	4
473	7.34	11.93	-4.59	A04	P1		4	9/2/2014	3	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5
474	7.46	11.93	-4.47	A04	P1		4	9/2/2014	3	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	6
475	7.71	11.10	-3.39	A04	P1		4	9/2/2014	3	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	7
476	6.84	11.10	-4.26	A04	P1		4	9/2/2014	3	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	8
477	4.17	9.81	-5.64	A04	P1		4	9/2/2014	3	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	9
478	6.11	9.81	-3.70	A04	P1		4	9/2/2014	3	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	10
479	4.5	8.24	-3.74	A04	P1		4	9/2/2014	3	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	11
480	7.1	8.24	-1.14	A04	P1		4	9/2/2014	3	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	12
493	17.78	11.83	5.95	A06		17	4	9/3/2014	2	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
494	19.74	11.83	7.91	A06		17	4	9/3/2014	2	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	2
495	19.81	12.19	7.62	A06		17	4	9/3/2014	2	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	3
496	18.52	12.19	6.33	A06		17	4	9/3/2014	2	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	4
497	29.51	11.93	17.58	A06		17	4	9/3/2014	2	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	5
498	29.09	11.93	17.16	A06		17	4	9/3/2014	2	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	6
499	16.89	11.10	5.79	A06		17	4	9/3/2014	2	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	7
500	21.91	11.10	10.81	A06		17	4	9/3/2014	2	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	8
501	14.54	9.81	4.73	A06		17	4	9/3/2014	2	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	9
502	19.77	9.81	9.96	A06		17	4	9/3/2014	2	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	10
503	21.61	8.24	13.37	A06		17	4	9/3/2014	2	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	11
504	16.72	8.24	8.48	A06		17	4	9/3/2014	2	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	12
529	22.74	11.83	10.91	A09		11	4	9/4/2014	2	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
530	22.51	11.83	10.68	A09		11	4	9/4/2014	2	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	2
531	21.34	12.19	9.15	A09		11	4	9/4/2014	2	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	3
532	19.81	12.19	7.62	A09		11	4	9/4/2014	2	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	4
533	13.09	11.93	1.16	A09		11	4	9/4/2014	2	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	5
534	13.62	11.93	1.69	A09		11	4	9/4/2014	2	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	6
535	5.68	11.10	-5.42	A09		11	4	9/4/2014	2	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	7
536	5.51	11.10	-5.59	A09		11	4	9/4/2014	2	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	8
537	11.32	9.81	1.51	A09		11	4	9/4/2014	2	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	9
538	13.09	9.81	3.28	A09		11	4	9/4/2014	2	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	10
539	12.6	8.24	4.36	A09		11	4	9/4/2014	2	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	11
540	11.33	8.24	3.09	A09		11	4	9/4/2014	2	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	12
445	6.88	11.83	-4.95	A02		8	4	9/5/2014	2	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
446	4.35	11.83	-7.48	A02		8	4	9/5/2014	2	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	2
447	6.46	12.19	-5.73	A02		8	4	9/5/2014	2	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	3
448	5.14	12.19	-7.05	A02		8	4	9/5/2014	2	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	4
449	5.42	11.93	-6.51	A02		8	4	9/5/2014	2	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	5
450	7.03	11.93	-4.90	A02		8	4	9/5/2014	2	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	6
451	4.57	11.10	-6.53	A02		8	4	9/5/2014	2	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	7
452	2.92	11.10	-8.18	A02		8	4	9/5/2014	2	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	8
453	1.72	9.81	-8.09	A02		8	4	9/5/2014	2	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	9
454	2.71	9.81	-7.10	A02		8	4	9/5/2014	2	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	10
455	3.3	8.24	-4.94	A02		8	4	9/5/2014	2	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	11
456	3.39	8.24	-4.85	A02		8	4	9/5/2014	2	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	12

Time Min G

Variable	Time of Minimum G
Transformation	log(abs(Time Min G))
Table	Other Preliminary Parameters
Model File	150120 1759 Abs Time Min G Dist2, Plate split-plot.jrp
Excluded Values	Test P4 Channel 4: Clear low outlier; excluded by analyst without SME approval
	Tests 27, 28 not used in model creation; used as confirmation points.

Model		-Exp(						
			7.79677993066145 + -0.345537869774988 * ((:Distance from LSC - 39) / 30) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) * 0.196999372504149) + Match(:Aluminum LSC Plate,					
				0, -0.214201144626985,				
				1, 0.214201144626985,				
			)					
		)						

Table of Estimates	Average of Pred Formula Time Min G	Distance from LSC					
	Aluminum LSC Plate	9	21	33	45	57	69
	0	-3378.3	-2593.6	-2120.8	-1847.1	-1713.3	-1692.6
	1	-5185.0	-3980.7	-3255.1	-2834.9	-2629.6	-2597.9

Variance Components	Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev
	Panel No	1.8497921	**0.0775164**	0.020978	0.0364003	0.1186325	**6491.0%**	**0.2784172**
	Test No	-0.366942	**-0.015377**	0.0096668	-0.034128	0.0033737	**0.0%**	**#NUM!**
	Residual		**0.0419055**	0.0026718	0.0371249	0.0476779	**3509.0%**	**0.204708329**
	Total		**0.1194219**	0.021119	0.0868387	0.1746209	**10000.0%**	**0.345574739**

Alternate Model								

Row Labels	Count of Pred MaxESDDisp Dist2 Dist x CL noTB Plate
2.12	2
2.42	2
2.46	2
2.62	2
2.65	2
2.70	2
2.74	6
3.27	6
3.70	6
3.94	6
3.97	6
4.06	6
6.36	32
7.26	32
7.41	32
7.88	32
7.96	32
8.12	32
8.24	50
9.81	50
11.10	50
11.83	50
11.93	50
12.19	50
Grand Total	540

Variance Components			
Random Effect	Variance Component	Component's Percent Share of Total Variance	Standard Deviation of Effect's Component (transformed units)
Panel-to-Panel	0.0775164	64.9%	0.2784177
Test-to-Test	-0.015377	0.0%	0.0000000
Within-Test	0.0419055	35.1%	0.2047083
Total Variability Not Explained by Model	0.1194219	100.0%	0.3455747

c	Time Min G	Pred Formula Time Min G	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Sensor Vert Posn T-B	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Aluminum LSC Plate	Acoustic Damped	Spliced LSC	Sever	0 Degree	Channel
1	-6160	-5184.96	-975.04	P1	P1	0	8/10/2012	0	9	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	1
2	-5163	-5184.96	21.96	P1	P1	0	8/10/2012	0	9	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	2
3	-3205	-3980.74	775.74	P1	P1	0	8/10/2012	0	21	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	3
4	-5198	-3980.74	-1217.26	P1	P1	0	8/10/2012	0	21	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	4
5	-3617	-3255.07	-361.93	P1	P1	0	8/10/2012	0	33	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	5
6	-3551	-3255.07	-295.93	P1	P1	0	8/10/2012	0	33	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	6
7	-4786	-2834.88	-1951.12	P1	P1	0	8/10/2012	0	45	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	7
8	-3371	-2834.88	-536.12	P1	P1	0	8/10/2012	0	45	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	8
9	-3357	-2629.58	-727.42	P1	P1	0	8/10/2012	0	57	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	9
10	-3593	-2629.58	-963.42	P1	P1	0	8/10/2012	0	57	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	10
11	-5155	-2597.86	-2557.14	P1	P1	0	8/10/2012	0	69	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	11
12	-3681	-2597.86	-1083.14	P1	P1	0	8/10/2012	0	69	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	12
13	-5380	-5184.96	-195.04	P2	P1	0	8/16/2012	1	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	1
14	-7321	-5184.96	-2136.04	P2	P1	0	8/16/2012	1	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	2
15	-4333	-3980.74	-352.26	P2	P1	0	8/16/2012	1	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	3
16	-6015	-3980.74	-2034.26	P2	P1	0	8/16/2012	1	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	4
17	-5349	-3255.07	-2093.93	P2	P1	0	8/16/2012	1	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	5
18	-5449	-3255.07	-2193.93	P2	P1	0	8/16/2012	1	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	6
19	-5048	-2834.88	-2213.12	P2	P1	0	8/16/2012	1	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	7
20	-4840	-2834.88	-2005.12	P2	P1	0	8/16/2012	1	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	8
21	-5584	-2629.58	-2954.42	P2	P1	0	8/16/2012	1	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	9
22	-4480	-2629.58	-1850.42	P2	P1	0	8/16/2012	1	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	10
23	-5429	-2597.86	-2831.14	P2	P1	0	8/16/2012	1	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	11
24	-6723	-2597.86	-4125.14	P2	P1	0	8/16/2012	1	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	12
25	-5945	-5184.96	1239.96	P3	P3	0	9/10/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
26	-3642	-5184.96	1542.96	P3	P3	0	9/10/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
27	-3097	-3980.74	883.74	P3	P3	0	9/10/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
28	-3420	-3980.74	560.74	P3	P3	0	9/10/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
29	-2869	-3255.07	386.07	P3	P3	0	9/10/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
30	-2422	-3255.07	833.07	P3	P3	0	9/10/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
31	-2973	-2834.88	-138.12	P3	P3	0	9/10/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
32	-3230	-2834.88	-395.12	P3	P3	0	9/10/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
33	-2277	-2629.58	352.58	P3	P3	0	9/10/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
34	-2312	-2629.58	317.58	P3	P3	0	9/10/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
35	-2335	-2597.86	262.86	P3	P3	0	9/10/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
36	-2569	-2597.86	28.86	P3	P3	0	9/10/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
37	-4077	-5184.96	1107.96	P4	P4	0	11/30/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
38	-6068	-5184.96	-883.04	P4	P4	0	11/30/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
39	-2222	-3980.74	1758.74	P4	P4	0	11/30/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
40	-14	-3980.74	3966.74	P4	P4	0	11/30/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
41	-2061	-3255.07	1194.07	P4	P4	0	11/30/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
42	-2976	-3255.07	279.07	P4	P4	0	11/30/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
43	-1636	-2834.88	1198.88	P4	P4	0	11/30/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
44	-1568	-2834.88	1266.88	P4	P4	0	11/30/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
45	-1570	-2629.58	1059.58	P4	P4	0	11/30/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
46	-1513	-2629.58	1116.58	P4	P4	0	11/30/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
47	-1417	-2597.86	1180.86	P4	P4	0	11/30/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
48	-1376	-2597.86	1221.86	P4	P4	0	11/30/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
49	-3837	-5184.96	1347.96	P5	P5	0	12/5/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
50	-4546	-5184.96	638.96	P5	P5	0	12/5/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
51	-3578	-3980.74	402.74	P5	P5	0	12/5/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
52	-3808	-3980.74	172.74	P5	P5	0	12/5/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
53	-3698	-3255.07	-442.93	P5	P5	0	12/5/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
54	-3012	-3255.07	243.07	P5	P5	0	12/5/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
55	-2545	-2834.88	289.88	P5	P5	0	12/5/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
56	-2684	-2834.88	150.88	P5	P5	0	12/5/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
57	-2567	-2629.58	62.58	P5	P5	0	12/5/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
58	-2458	-2629.58	171.58	P5	P5	0	12/5/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
59	-2926	-2597.86	-328.14	P5	P5	0	12/5/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
60	-2489	-2597.86	108.86	P5	P5	0	12/5/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
61	-5189	-5184.96	-4.04	1	1	1	1/23/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
62	-5378	-5184.96	-193.04	1	1	1	1/23/2013	0	9	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
63	-4560	-3980.74	-579.26	1	1	1	1/23/2013	0	21	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
64	-3650	-3980.74	330.74	1	1	1	1/23/2013	0	21	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
65	-3454	-3255.07	-198.93	1	1	1	1/23/2013	0	33	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
66	-3120	-3255.07	135.07	1	1	1	1/23/2013	0	33	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
67	-2637	-2834.88	197.88	1	1	1	1/23/2013	0	45	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
68	-3742	-2834.88	-907.12	1	1	1	1/23/2013	0	45	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
69	-3473	-2629.58	-843.42	1	1	1	1/23/2013	0	57	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
70	-3005	-2629.58	-375.42	1	1	1	1/23/2013	0	57	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
71	-3330	-2597.86	-732.14	1	1	1	1/23/2013	0	69	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
72	-2579	-2597.86	18.86	1	1	1	1/23/2013	0	69	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
73	-4662	-5184.96	522.96	2	2	1	1/29/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1

Value omitted

74	-6908	-5184.96	-1723.04	2	2	1	1/29/2013	0	9 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
75	-3369	-3980.74	611.74	2	2	1	1/29/2013	0	21 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
76	-4208	-3980.74	-227.26	2	2	1	1/29/2013	0	21 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
77	-3547	-3255.07	-291.93	2	2	1	1/29/2013	0	33 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
78	-3038	-3255.07	217.07	2	2	1	1/29/2013	0	33 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
79	-3377	-2834.88	-542.12	2	2	1	1/29/2013	0	45 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
80	-2697	-2834.88	137.88	2	2	1	1/29/2013	0	45 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
81	-3376	-2629.58	-746.42	2	2	1	1/29/2013	0	57 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
82	-2547	-2629.58	82.58	2	2	1	1/29/2013	0	57 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
83	-2851	-2597.86	-253.14	2	2	1	1/29/2013	0	69 T	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
84	-2805	-2597.86	-207.14	2	2	1	1/29/2013	0	69 B	0.2	10 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
109	-4228	-5184.96	956.96	4	4	1	2/5/2013	0	9 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
110	-5341	-5184.96	-156.04	4	4	1	2/5/2013	0	9 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
111	-3269	-3980.74	711.74	4	4	1	2/5/2013	0	21 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
112	-3269	-3980.74	711.74	4	4	1	2/5/2013	0	21 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
113	-3166	-3255.07	89.07	4	4	1	2/5/2013	0	33 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
114	-3356	-3255.07	-100.93	4	4	1	2/5/2013	0	33 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
115	-2400	-2834.88	434.88	4	4	1	2/5/2013	0	45 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
116	-2850	-2834.88	-15.12	4	4	1	2/5/2013	0	45 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
117	-2567	-2629.58	62.58	4	4	1	2/5/2013	0	57 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
118	-2068	-2629.58	561.58	4	4	1	2/5/2013	0	57 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
119	-2123	-2597.86	474.86	4	4	1	2/5/2013	0	69 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
120	-2657	-2597.86	-59.14	4	4	1	2/5/2013	0	69 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
97	-5650	-5184.96	-465.04	3	3	1	2/8/2013	0	9 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
98	-5609	-5184.96	-424.04	3	3	1	2/8/2013	0	9 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
99	-4086	-3980.74	-105.26	3	3	1	2/8/2013	0	21 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
100	-3267	-3980.74	713.74	3	3	1	2/8/2013	0	21 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
101	-3259	-3255.07	-3.93	3	3	1	2/8/2013	0	33 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
102	-4771	-3255.07	-1515.93	3	3	1	2/8/2013	0	33 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
103	-2284	-2834.88	550.88	3	3	1	2/8/2013	0	45 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
104	-2311	-2834.88	523.88	3	3	1	2/8/2013	0	45 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
105	-2734	-2629.58	-104.42	3	3	1	2/8/2013	0	57 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
106	-2833	-2629.58	-203.42	3	3	1	2/8/2013	0	57 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
107	-2439	-2597.86	158.86	3	3	1	2/8/2013	0	69 T	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
108	-2638	-2597.86	-40.14	3	3	1	2/8/2013	0	69 B	0.3	10 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
133	-4943	-5184.96	241.96	5	5	1	2/22/2013	0	9 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
134	-6495	-5184.96	-1310.04	5	5	1	2/22/2013	0	9 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
135	-3593	-3980.74	387.74	5	5	1	2/22/2013	0	21 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
136	-6056	-3980.74	-2075.26	5	5	1	2/22/2013	0	21 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
137	-4966	-3255.07	-1710.93	5	5	1	2/22/2013	0	33 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
138	-5534	-3255.07	-2278.93	5	5	1	2/22/2013	0	33 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
139	-4211	-2834.88	-1376.12	5	5	1	2/22/2013	0	45 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
140	-3615	-2834.88	-780.12	5	5	1	2/22/2013	0	45 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
141	-4198	-2629.58	-1568.42	5	5	1	2/22/2013	0	57 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
142	-2816	-2629.58	-186.42	5	5	1	2/22/2013	0	57 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
143	-3298	-2597.86	-700.14	5	5	1	2/22/2013	0	69 T	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
144	-3706	-2597.86	-1108.14	5	5	1	2/22/2013	0	69 B	0.2	22 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
145	-7215	-5184.96	-2030.04	6	6	1	5/8/2013	0	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
146	-6960	-5184.96	-1775.04	6	6	1	5/8/2013	0	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
147	-5202	-3980.74	-1221.26	6	6	1	5/8/2013	0	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
148	-3761	-3980.74	219.74	6	6	1	5/8/2013	0	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
149	-2991	-3255.07	264.07	6	6	1	5/8/2013	0	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
150	-3667	-3255.07	-411.93	6	6	1	5/8/2013	0	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
151	-3507	-2834.88	-672.12	6	6	1	5/8/2013	0	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
152	-2790	-2834.88	44.88	6	6	1	5/8/2013	0	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
153	-3269	-2629.58	-639.42	6	6	1	5/8/2013	0	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
154	-3579	-2629.58	-949.42	6	6	1	5/8/2013	0	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
155	-3276	-2597.86	-678.14	6	6	1	5/8/2013	0	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
156	-2746	-2597.86	-148.14	6	6	1	5/8/2013	0	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
157	-6799	-5184.96	-1614.04	7	7	1	5/9/2013	0	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
158	-7559	-5184.96	-2374.04	7	7	1	5/9/2013	0	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
159	-5258	-3980.74	-1277.26	7	7	1	5/9/2013	0	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
160	-3526	-3980.74	454.74	7	7	1	5/9/2013	0	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
161	-3262	-3255.07	-6.93	7	7	1	5/9/2013	0	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
162	-4083	-3255.07	-827.93	7	7	1	5/9/2013	0	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
163	-3183	-2834.88	-348.12	7	7	1	5/9/2013	0	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
164	-3333	-2834.88	-498.12	7	7	1	5/9/2013	0	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
165	-3988	-2629.58	-1358.42	7	7	1	5/9/2013	0	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
166	-2792	-2629.58	-162.42	7	7	1	5/9/2013	0	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
167	-4540	-2597.86	-1942.14	7	7	1	5/9/2013	0	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
168	-2467	-2597.86	130.86	7	7	1	5/9/2013	0	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
169	-6655	-5184.96	-1470.04	8	8	1	5/16/2013	0	9 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
170	-5372	-5184.96	-187.04	8	8	1	5/16/2013	0	9 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
171	-4004	-3980.74	-23.26	8	8	1	5/16/2013	0	21 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
172	-6717	-3980.74	-2736.26	8	8	1	5/16/2013	0	21 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
173	-4715	-3255.07	-1459.93	8	8	1	5/16/2013	0	33 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
174	-2585	-3255.07	670.07	8	8	1	5/16/2013	0	33 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
175	-4005	-2834.88	-1170.12	8	8	1	5/16/2013	0	45 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
176	-2336	-2834.88	498.88	8	8	1	5/16/2013	0	45 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8

177	-3004	-2629.58	-374.42	8	8	1	5/16/2013	0	57 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
178	-2769	-2629.58	-139.42	8	8	1	5/16/2013	0	57 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
179	-2439	-2597.86	158.86	8	8	1	5/16/2013	0	69 T	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
180	-2207	-2597.86	390.86	8	8	1	5/16/2013	0	69 B	0.3	10 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
181	-4135	-5184.96	1049.96	9	9	1	5/17/2013	0	9 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
182	-5255	-5184.96	-70.04	9	9	1	5/17/2013	0	9 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
183	-3755	-3980.74	225.74	9	9	1	5/17/2013	0	21 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
184	-4634	-3980.74	-653.26	9	9	1	5/17/2013	0	21 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
185	-3949	-3255.07	-693.93	9	9	1	5/17/2013	0	33 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
186	-4916	-3255.07	-1660.93	9	9	1	5/17/2013	0	33 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
187	-4617	-2834.88	-1782.12	9	9	1	5/17/2013	0	45 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
188	-2902	-2834.88	-67.12	9	9	1	5/17/2013	0	45 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
189	-3205	-2629.58	-575.42	9	9	1	5/17/2013	0	57 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
190	-2821	-2629.58	-191.42	9	9	1	5/17/2013	0	57 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
191	-3414	-2597.86	-816.14	9	9	1	5/17/2013	0	69 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
192	-2240	-2597.86	357.86	9	9	1	5/17/2013	0	69 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
205	-8246	-5184.96	-3061.04	10	10	1	5/29/2013	0	9 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
206	-8688	-5184.96	-3503.04	10	10	1	5/29/2013	0	9 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
207	-4494	-3980.74	-513.26	10	10	1	5/29/2013	0	21 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
208	-6865	-3980.74	-2884.26	10	10	1	5/29/2013	0	21 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
209	-4817	-3255.07	-1561.93	10	10	1	5/29/2013	0	33 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
210	-4848	-3255.07	-1592.93	10	10	1	5/29/2013	0	33 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
211	-3574	-2834.88	-739.12	10	10	1	5/29/2013	0	45 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
212	-4584	-2834.88	-1749.12	10	10	1	5/29/2013	0	45 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
213	-3869	-2629.58	-1239.42	10	10	1	5/29/2013	0	57 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
214	-3239	-2629.58	-609.42	10	10	1	5/29/2013	0	57 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
215	-3463	-2597.86	-865.14	10	10	1	5/29/2013	0	69 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
216	-4004	-2597.86	-1406.14	10	10	1	5/29/2013	0	69 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
229	-5463	-5184.96	-1278.04	11	11	2	5/31/2013	0	9 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	1
230	-4751	-5184.96	433.96	11	11	2	5/31/2013	0	9 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	2
231	-5014	-3980.74	-1033.26	11	11	2	5/31/2013	0	21 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	3
232	-3518	-3980.74	462.74	11	11	2	5/31/2013	0	21 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	4
233	-3441	-3255.07	-185.93	11	11	2	5/31/2013	0	33 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	5
234	-3063	-3255.07	192.07	11	11	2	5/31/2013	0	33 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	6
235	-3790	-2834.88	-955.12	11	11	2	5/31/2013	0	45 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	7
236	-3237	-2834.88	-402.12	11	11	2	5/31/2013	0	45 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	8
237	-3684	-2629.58	-1054.42	11	11	2	5/31/2013	0	57 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	9
238	-3686	-2629.58	-56.42	11	11	2	5/31/2013	0	57 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	10
239	-2444	-2597.86	153.86	11	11	2	5/31/2013	0	69 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	11
240	-2198	-2597.86	399.86	11	11	2	5/31/2013	0	69 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	12
241	-6886	-5184.96	-1701.04	12	14	2	6/28/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
242	-6553	-5184.96	-1368.04	12	14	2	6/28/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
243	-3868	-3980.74	112.74	12	14	2	6/28/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
244	-2930	-3980.74	1050.74	12	14	2	6/28/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
245	-2611	-3255.07	644.07	12	14	2	6/28/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
246	-2369	-3255.07	886.07	12	14	2	6/28/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
247	-2390	-2834.88	444.88	12	14	2	6/28/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
248	-2219	-2834.88	615.88	12	14	2	6/28/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
249	-3148	-2629.58	-518.42	12	14	2	6/28/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
250	-2654	-2629.58	-24.42	12	14	2	6/28/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
251	-2410	-2597.86	187.86	12	14	2	6/28/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
252	-2066	-2597.86	531.86	12	14	2	6/28/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
253	-2727	-5184.96	2457.96	13	13	2	7/16/2013	0	9 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
254	-3696	-5184.96	1488.96	13	13	2	7/16/2013	0	9 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
255	-2275	-3980.74	1705.74	13	13	2	7/16/2013	0	21 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
256	-2856	-3980.74	1124.74	13	13	2	7/16/2013	0	21 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
257	-1592	-3255.07	1663.07	13	13	2	7/16/2013	0	33 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
258	-1475	-3255.07	1780.07	13	13	2	7/16/2013	0	33 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
259	-2086	-2834.88	748.88	13	13	2	7/16/2013	0	45 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
260	-2091	-2834.88	743.88	13	13	2	7/16/2013	0	45 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
261	-2057	-2629.58	572.58	13	13	2	7/16/2013	0	57 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
262	-2142	-2629.58	487.58	13	13	2	7/16/2013	0	57 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
263	-1499	-2597.86	1098.86	13	13	2	7/16/2013	0	69 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
264	-1527	-2597.86	1070.86	13	13	2	7/16/2013	0	69 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
265	-5086	-5184.96	98.96	14	12	2	7/17/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
266	-5088	-5184.96	96.96	14	12	2	7/17/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
267	-3421	-3980.74	559.74	14	12	2	7/17/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
268	-5016	-3980.74	-1035.26	14	12	2	7/17/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
269	-2826	-3255.07	429.07	14	12	2	7/17/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
270	-2349	-3255.07	906.07	14	12	2	7/17/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
271	-3067	-2834.88	-232.12	14	12	2	7/17/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
272	-3051	-2834.88	-216.12	14	12	2	7/17/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
273	-3112	-2629.58	-482.42	14	12	2	7/17/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
274	-2848	-2629.58	-218.42	14	12	2	7/17/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
275	-2947	-2597.86	-349.14	14	12	2	7/17/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
276	-3251	-2597.86	-653.14	14	12	2	7/17/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
277	-5884	-5184.96	-699.04	15	16	2	7/18/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
278	-6295	-5184.96	-1110.04	15	16	2	7/18/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
279	-4473	-3980.74	-492.26	15	16	2	7/18/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
280	-2945	-3980.74	1035.74	15	16	2	7/18/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
281	-3628	-3255.07	-372.93	15	16	2	7/18/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
282	-2638	-3255.07	617.07	15	16	2	7/18/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
283	-3137	-2834.88	-302.12	15	16	2	7/18/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
284	-2591	-2834.88	243.88	15	16	2	7/18/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
285	-3123	-2629.58	-493.42	15	16	2	7/18/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
286	-2933	-2629.58	-303.42	15	16	2	7/18/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
287	-3248	-2597.86	-650.14	15	16	2	7/18/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11

288	-2948	-2597.86	-350.14	15	16	2	7/18/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
289	-6597	-5184.96	-1412.04	16	18	2	7/23/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
290	-6612	-5184.96	-1427.04	16	18	2	7/23/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
291	-4633	-3980.74	-652.26	16	18	2	7/23/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
292	-3795	-3980.74	185.74	16	18	2	7/23/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
293	-2877	-3255.07	378.07	16	18	2	7/23/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
294	-2181	-3255.07	1074.07	16	18	2	7/23/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
295	-2787	-2834.88	47.88	16	18	2	7/23/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
296	-2721	-2834.88	113.88	16	18	2	7/23/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
297	-3310	-2629.58	-680.42	16	18	2	7/23/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
298	-2881	-2629.58	-251.42	16	18	2	7/23/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
299	-2449	-2597.86	148.86	16	18	2	7/23/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
300	-2482	-2597.86	115.86	16	18	2	7/23/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
301	-3837	-5184.96	1347.96	17	15	2	8/9/2013	0	9 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
302	-5129	-5184.96	55.96	17	15	2	8/9/2013	0	9 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
303	-3421	-3980.74	559.74	17	15	2	8/9/2013	0	21 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
304	-3491	-3980.74	489.74	17	15	2	8/9/2013	0	21 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
305	-2497	-3255.07	758.07	17	15	2	8/9/2013	0	33 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
306	-2242	-3255.07	1013.07	17	15	2	8/9/2013	0	33 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
307	-2650	-2834.88	184.88	17	15	2	8/9/2013	0	45 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
308	-3122	-2834.88	-287.12	17	15	2	8/9/2013	0	45 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
309	-2689	-2629.58	-59.42	17	15	2	8/9/2013	0	57 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
310	-2355	-2629.58	274.58	17	15	2	8/9/2013	0	57 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
311	-3084	-2597.86	-486.14	17	15	2	8/9/2013	0	69 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
312	-2974	-2597.86	-376.14	17	15	2	8/9/2013	0	69 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
313	-3173	-5184.96	2011.96	18	17	2	8/19/2013	0	9 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
314	-3608	-5184.96	1576.96	18	17	2	8/19/2013	0	9 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
315	-3049	-3980.74	931.74	18	17	2	8/19/2013	0	21 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
316	-3171	-3980.74	809.74	18	17	2	8/19/2013	0	21 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
317	-1932	-3255.07	1323.07	18	17	2	8/19/2013	0	33 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
318	-1666	-3255.07	1589.07	18	17	2	8/19/2013	0	33 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
319	-1866	-2834.88	968.88	18	17	2	8/19/2013	0	45 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
320	-1467	-2834.88	1367.88	18	17	2	8/19/2013	0	45 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
321	-1866	-2629.58	763.58	18	17	2	8/19/2013	0	57 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
322	-1545	-2629.58	1084.58	18	17	2	8/19/2013	0	57 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
323	-1537	-2597.86	1060.86	18	17	2	8/19/2013	0	69 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
324	-1281	-2597.86	1316.86	18	17	2	8/19/2013	0	69 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
325	-2987	-3378.26	391.26	19	19	3	10/31/2013	0	9 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	1
326	-3387	-3378.26	-8.74	19	19	3	10/31/2013	0	9 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	2
327	-1860	-2593.65	733.65	19	19	3	10/31/2013	0	21 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	3
328	-3056	-2593.65	-462.35	19	19	3	10/31/2013	0	21 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	4
329	-2370	-2120.84	-249.16	19	19	3	10/31/2013	0	33 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	5
330	-1961	-2120.84	159.84	19	19	3	10/31/2013	0	33 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	6
331	-1380	-1847.06	467.06	19	19	3	10/31/2013	0	45 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	7
332	-1996	-1847.06	-148.94	19	19	3	10/31/2013	0	45 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	8
333	-1701	-1713.30	12.30	19	19	3	10/31/2013	0	57 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	9
334	-1906	-1713.30	-192.70	19	19	3	10/31/2013	0	57 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	10
335	-1570	-1692.63	122.63	19	19	3	10/31/2013	0	69 T	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	11
336	-1732	-1692.63	-39.37	19	19	3	10/31/2013	0	69 B	1	10 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	0	1	12
337	-6746	-3378.26	-3367.74	20	20	3	11/19/2013	0	9 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	1
338	-7679	-3378.26	-4300.74	20	20	3	11/19/2013	0	9 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	2
339	-5374	-2593.65	-2780.35	20	20	3	11/19/2013	0	21 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	3
340	-4579	-2593.65	-1985.35	20	20	3	11/19/2013	0	21 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	4
341	-5214	-2120.84	-3093.16	20	20	3	11/19/2013	0	33 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	5
342	-5167	-2120.84	-3046.16	20	20	3	11/19/2013	0	33 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	6
343	-3131	-1847.06	-1283.94	20	20	3	11/19/2013	0	45 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	7
344	-3006	-1847.06	-1158.94	20	20	3	11/19/2013	0	45 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	8
345	-2658	-1713.30	-944.70	20	20	3	11/19/2013	0	57 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	9
346	-1920	-1713.30	-206.70	20	20	3	11/19/2013	0	57 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	10
347	-1530	-1692.63	162.63	20	20	3	11/19/2013	0	69 T	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	11
348	-1130	-1692.63	562.63	20	20	3	11/19/2013	0	69 B	1	22 Fabric	Rohacell	Rohacell - 1	Fabric Composi	0	0	0	1	1	12
361	-4099	-5184.96	1085.96	22	22	3	11/25/2013	0	9 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	1
362	-3129	-5184.96	2055.96	22	22	3	11/25/2013	0	9 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	2
363	-2076	-3980.74	1904.74	22	22	3	11/25/2013	0	21 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	3
364	-2885	-3980.74	1095.74	22	22	3	11/25/2013	0	21 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	4
365	-2023	-3255.07	1232.07	22	22	3	11/25/2013	0	33 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	5
366	-1532	-3255.07	1723.07	22	22	3	11/25/2013	0	33 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	6
367	-1236	-2834.88	1598.88	22	22	3	11/25/2013	0	45 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	7
368	-1121	-2834.88	1713.88	22	22	3	11/25/2013	0	45 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	8
369	-1178	-2629.58	1451.58	22	22	3	11/25/2013	0	57 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	9
370	-1276	-2629.58	1353.58	22	22	3	11/25/2013	0	57 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	10
371	-1136	-2597.86	1461.86	22	22	3	11/25/2013	0	69 T	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	11
372	-1169	-2597.86	1428.86	22	22	3	11/25/2013	0	69 B	1	10 Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	12
349	-5422	-5184.96	-237.04	21	21	3	12/4/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
350	-5769	-5184.96	-584.04	21	21	3	12/4/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
351	-3707	-3980.74	273.74	21	21	3	12/4/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
352	-4652	-3980.74	-671.26	21	21	3	12/4/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
353	-3055	-3255.07	200.07	21	21	3	12/4/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
354	-2222	-3255.07	1033.07	21	21	3	12/4/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
355	-3345	-2834.88	-510.12	21	21	3	12/4/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
356	-3133	-2834.88	-298.12	21	21	3	12/4/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
357	-3670	-2629.58	-1040.42	21	21	3	12/4/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
358	-3159	-2629.58	-529.42	21	21	3	12/4/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
359	-3238	-2597.86	-640.14	21	21	3	12/4/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
360	-2970	-2597.86	-372.14	21	21	3	12/4/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
121	-7668	-5184.96	-2483.04	4R	4	1	12/12/2013	1	9 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
122	-4887	-5184.96	297.96	4R	4	1	12/12/2013	1	9 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
123	-4298	-3980.74	-317.26	4R	4	1	12/12/2013	1	21 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
124	-5202	-3980.74	-1221.26	4R	4	1	12/12/2013	1	21 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
125	-4053	-3255.07	-797.93	4R	4	1	12/12/2013	1	33 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5

126	-3142	-3255.07	113.07	4R	4	1	12/12/2013	1	33 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
127	-2928	-2834.88	-93.12	4R	4	1	12/12/2013	1	45 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
128	-2599	-2834.88	235.88	4R	4	1	12/12/2013	1	45 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
129	-2807	-2629.58	22.58	4R	4	1	12/12/2013	1	57 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
130	-1996	-2629.58	633.58	4R	4	1	12/12/2013	1	57 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
131	-2961	-2597.86	-363.14	4R	4	1	12/12/2013	1	69 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
132	-3081	-2597.86	-483.14	4R	4	1	12/12/2013	1	69 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
85	-5489	-5184.96	-304.04	2R	2	1	12/16/2013	1	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
86	-4654	-5184.96	530.96	2R	2	1	12/16/2013	1	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
87	-4120	-3980.74	-139.26	2R	2	1	12/16/2013	1	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
88	-3954	-3980.74	26.74	2R	2	1	12/16/2013	1	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
89	-3700	-3255.07	-444.93	2R	2	1	12/16/2013	1	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
90	-3549	-3255.07	-293.93	2R	2	1	12/16/2013	1	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
91	-3478	-2834.88	-643.12	2R	2	1	12/16/2013	1	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
92	-3203	-2834.88	-368.12	2R	2	1	12/16/2013	1	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
93	-3554	-2629.58	-924.42	2R	2	1	12/16/2013	1	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
94	-2503	-2629.58	126.58	2R	2	1	12/16/2013	1	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
95	-3783	-2597.86	-1185.14	2R	2	1	12/16/2013	1	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
96	-2536	-2597.86	61.86	2R	2	1	12/16/2013	1	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
409	-2642	-3378.26	736.26	26	26	3	12/18/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	1
410	-1810	-3378.26	1568.26	26	26	3	12/18/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	2
411	-1203	-2593.65	1390.65	26	26	3	12/18/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	3
412	-1595	-2593.65	998.65	26	26	3	12/18/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	4
413	-2024	-2120.84	96.84	26	26	3	12/18/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	5
414	-2139	-2120.84	-18.16	26	26	3	12/18/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	6
415	-2272	-1847.06	-424.94	26	26	3	12/18/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	7
416	-2492	-1847.06	-644.94	26	26	3	12/18/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	8
417	-2134	-1713.30	-420.70	26	26	3	12/18/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	9
418	-1681	-1713.30	32.30	26	26	3	12/18/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	10
419	-1660	-1692.63	32.63	26	26	3	12/18/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	11
420	-1404	-1692.63	288.63	26	26	3	12/18/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Composite	0	0	0	1	1	12
217	-4947	-5184.96	237.96	10R	10	1	1/16/2014	1	9 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	1
218	-5027	-5184.96	157.96	10R	10	1	1/16/2014	1	9 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	2
219	-4901	-3980.74	-920.26	10R	10	1	1/16/2014	1	21 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	3
220	-4255	-3980.74	-274.26	10R	10	1	1/16/2014	1	21 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	4
221	-3319	-3255.07	-63.93	10R	10	1	1/16/2014	1	33 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	5
222	-3718	-3255.07	-462.93	10R	10	1	1/16/2014	1	33 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	6
223	-3326	-2834.88	-491.12	10R	10	1	1/16/2014	1	45 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	7
224	-3260	-2834.88	-425.12	10R	10	1	1/16/2014	1	45 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	8
225	-3080	-2629.58	-450.42	10R	10	1	1/16/2014	1	57 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	9
226	-2604	-2629.58	25.58	10R	10	1	1/16/2014	1	57 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	10
227	-3821	-2597.86	-1223.14	10R	10	1	1/16/2014	1	69 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	11
228	-3107	-2597.86	-509.14	10R	10	1	1/16/2014	1	69 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	12
193	-6681	-5184.96	-1496.04	9R	9	1	1/23/2014	1	9 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
194	-4445	-5184.96	739.96	9R	9	1	1/23/2014	1	9 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
195	-4896	-3980.74	-915.26	9R	9	1	1/23/2014	1	21 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
196	-3521	-3980.74	459.74	9R	9	1	1/23/2014	1	21 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
197	-4107	-3255.07	-851.93	9R	9	1	1/23/2014	1	33 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
198	-4106	-3255.07	-850.93	9R	9	1	1/23/2014	1	33 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
199	-3243	-2834.88	-408.12	9R	9	1	1/23/2014	1	45 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
200	-3134	-2834.88	-299.12	9R	9	1	1/23/2014	1	45 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
201	-3136	-2629.58	-506.42	9R	9	1	1/23/2014	1	57 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
202	-2291	-2629.58	338.58	9R	9	1	1/23/2014	1	57 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
203	-3812	-2597.86	-214.14	9R	9	1	1/23/2014	1	69 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
204	-2735	-2597.86	-137.14	9R	9	1	1/23/2014	1	69 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
373	-5017	-5184.96	167.96		23	3	4/18/2014	0	9 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	1
374	-6056	-5184.96	-871.04		23	3	4/18/2014	0	9 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	2
375	-3179	-3980.74	801.74		23	3	4/18/2014	0	21 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	3
376	-2533	-3980.74	1447.74		23	3	4/18/2014	0	21 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	4
377	-2982	-3255.07	273.07		23	3	4/18/2014	0	33 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	5
378	-2798	-3255.07	457.07		23	3	4/18/2014	0	33 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	6
379	-2613	-2834.88	221.88		23	3	4/18/2014	0	45 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	7
380	-2113	-2834.88	721.88		23	3	4/18/2014	0	45 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	8
381	-2564	-2629.58	65.58		23	3	4/18/2014	0	57 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	9
382	-2296	-2629.58	333.58		23	3	4/18/2014	0	57 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	10
383	-2778	-2597.86	-180.14		23	3	4/18/2014	0	69 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	11
384	-2802	-2597.86	-204.14		23	3	4/18/2014	0	69 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	12
385	-3214	-5184.96	1970.96		24	3	4/22/2014	0	9 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
386	-6845	-5184.96	-1660.04		24	3	4/22/2014	0	9 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
387	-3959	-3980.74	21.74		24	3	4/22/2014	0	21 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
388	-3112	-3980.74	868.74		24	3	4/22/2014	0	21 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
389	-2578	-3255.07	677.07		24	3	4/22/2014	0	33 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
390	-2696	-3255.07	559.07		24	3	4/22/2014	0	33 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
391	-2513	-2834.88	321.88		24	3	4/22/2014	0	45 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
392	-2085	-2834.88	749.88		24	3	4/22/2014	0	45 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
393	-2768	-2629.58	-138.42		24	3	4/22/2014	0	57 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
394	-2032	-2629.58	597.58		24	3	4/22/2014	0	57 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
395	-2211	-2597.86	386.86		24	3	4/22/2014	0	69 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
396	-2952	-2597.86	-354.14		24	3	4/22/2014	0	69 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
397	-2283	-3378.26	1095.26		25	3	6/10/2014	0	9 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	1
398	-1676	-3378.26	1702.26		25	3	6/10/2014	0	9 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Composi	0	0	0	1	1	2

399	-1631	-2593.65	962.65	25	25	3	6/10/2014	0	21 T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	3
400	-1486	-2593.65	1107.65	25	25	3	6/10/2014	0	21 B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	4
401	-1345	-2120.84	775.84	25	25	3	6/10/2014	0	33 T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	5
402	-1423	-2120.84	697.84	25	25	3	6/10/2014	0	33 B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	6
403	-2586	-1847.06	-738.94	25	25	3	6/10/2014	0	45 T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	7
404	-1861	-1847.06	-13.94	25	25	3	6/10/2014	0	45 B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	8
405	-1419	-1713.30	294.30	25	25	3	6/10/2014	0	57 T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	9
406	-1189	-1713.30	524.30	25	25	3	6/10/2014	0	57 B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	10
407	-1351	-1692.63	341.63	25	25	3	6/10/2014	0	69 T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	11
408	-1422	-1692.63	270.63	25	25	3	6/10/2014	0	69 B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Composit	0	0	0	1	1	12
481	-8779	-5184.96	-3594.04	A05		17	4	8/20/2014	1	9 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
482	-10529	-5184.96	-5344.04	A05		17	4	8/20/2014	1	9 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
483	-5423	-3980.74	-1442.26	A05		17	4	8/20/2014	1	21 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
484	-4780	-3980.74	-799.26	A05		17	4	8/20/2014	1	21 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
485	-3575	-3255.07	-319.93	A05		17	4	8/20/2014	1	33 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
486	-3368	-3255.07	-112.93	A05		17	4	8/20/2014	1	33 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
487	-3760	-2834.88	-925.12	A05		17	4	8/20/2014	1	45 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
488	-2996	-2834.88	-161.12	A05		17	4	8/20/2014	1	45 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
489	-4044	-2629.58	-1414.42	A05		17	4	8/20/2014	1	57 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
490	-3619	-2629.58	-989.42	A05		17	4	8/20/2014	1	57 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
491	-2724	-2597.86	-126.14	A05		17	4	8/20/2014	1	69 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
492	-2828	-2597.86	-230.14	A05		17	4	8/20/2014	1	69 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
433	-7487	-5184.96	-2302.04	A10		12	4	8/21/2014	1	9 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	1
434	-7280	-5184.96	-2095.04	A10		12	4	8/21/2014	1	9 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	2
435	-6210	-3980.74	-2229.26	A10		12	4	8/21/2014	1	21 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	3
436	-4581	-3980.74	-600.26	A10		12	4	8/21/2014	1	21 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	4
437	-4159	-3255.07	-903.93	A10		12	4	8/21/2014	1	33 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	5
438	-3135	-3255.07	120.07	A10		12	4	8/21/2014	1	33 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	6
439	-3846	-2834.88	-1011.12	A10		12	4	8/21/2014	1	45 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	7
440	-2639	-2834.88	195.88	A10		12	4	8/21/2014	1	45 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	8
441	-2806	-2629.58	-176.42	A10		12	4	8/21/2014	1	57 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	9
442	-2623	-2629.58	6.58	A10		12	4	8/21/2014	1	57 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	10
443	-2591	-2597.86	6.86	A10		12	4	8/21/2014	1	69 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	11
444	-2476	-2597.86	121.86	A10		12	4	8/21/2014	1	69 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	12
421	-3636	-5184.96	1548.96	A01		8	4	8/25/2014	1	9 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
422	-3829	-5184.96	1355.96	A01		8	4	8/25/2014	1	9 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
423	-4292	-3980.74	-311.26	A01		8	4	8/25/2014	1	21 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
424	-4054	-3980.74	-73.26	A01		8	4	8/25/2014	1	21 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
425	-3150	-3255.07	105.07	A01		8	4	8/25/2014	1	33 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
426	-2257	-3255.07	998.07	A01		8	4	8/25/2014	1	33 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
427	-2545	-2834.88	289.88	A01		8	4	8/25/2014	1	45 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
428	-2251	-2834.88	583.88	A01		8	4	8/25/2014	1	45 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
429	-2497	-2629.58	132.58	A01		8	4	8/25/2014	1	57 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
430	-2314	-2629.58	315.58	A01		8	4	8/25/2014	1	57 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
431	-2260	-2597.86	337.86	A01		8	4	8/25/2014	1	69 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
432	-2022	-2597.86	575.86	A01		8	4	8/25/2014	1	69 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
505	-5961	-5184.96	-776.04	A07		18	4	8/26/2014	1	9 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	1
506	-6894	-5184.96	-1709.04	A07		18	4	8/26/2014	1	9 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	2
507	-7264	-3980.74	-3283.26	A07		18	4	8/26/2014	1	21 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	3
508	-3811	-3980.74	369.74	A07		18	4	8/26/2014	1	21 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	4
509	-4042	-3255.07	-786.93	A07		18	4	8/26/2014	1	33 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	5
510	-4088	-3255.07	-832.93	A07		18	4	8/26/2014	1	33 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	6
511	-3683	-2834.88	-848.12	A07		18	4	8/26/2014	1	45 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	7
512	-3402	-2834.88	-567.12	A07		18	4	8/26/2014	1	45 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	8
513	-3018	-2629.58	-388.42	A07		18	4	8/26/2014	1	57 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	9
514	-4250	-2629.58	-1620.42	A07		18	4	8/26/2014	1	57 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	10
515	-3530	-2597.86	-932.14	A07		18	4	8/26/2014	1	69 T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	11
516	-3890	-2597.86	-1292.14	A07		18	4	8/26/2014	1	69 B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	12
517	-3600	-5184.96	1584.96	A08		11	4	8/26/2014	1	9 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
518	-4699	-5184.96	485.96	A08		11	4	8/26/2014	1	9 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
519	-4118	-3980.74	-137.26	A08		11	4	8/26/2014	1	21 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
520	-3125	-3980.74	855.74	A08		11	4	8/26/2014	1	21 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
521	-3536	-3255.07	-280.93	A08		11	4	8/26/2014	1	33 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
522	-2684	-3255.07	571.07	A08		11	4	8/26/2014	1	33 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
523	-1635	-2834.88	1199.88	A08		11	4	8/26/2014	1	45 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
524	-2381	-2834.88	453.88	A08		11	4	8/26/2014	1	45 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
525	-1881	-2629.58	748.58	A08		11	4	8/26/2014	1	57 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
526	-1592	-2629.58	1037.58	A08		11	4	8/26/2014	1	57 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
527	-1660	-2597.86	937.86	A08		11	4	8/26/2014	1	69 T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
528	-1860	-2597.86	737.86	A08		11	4	8/26/2014	1	69 B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
457	-4998	-5184.96	186.96	A03	P1		4	8/27/2014	2	9 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	1
458	-6685	-5184.96	-1500.04	A03	P1		4	8/27/2014	2	9 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	2
459	-3077	-3980.74	903.74	A03	P1		4	8/27/2014	2	21 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	3
460	-3033	-3980.74	947.74	A03	P1		4	8/27/2014	2	21 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	4
461	-3713	-3255.07	-457.93	A03	P1		4	8/27/2014	2	33 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5
462	-2919	-3255.07	336.07	A03	P1		4	8/27/2014	2	33 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	6
463	-2775	-2834.88	59.88	A03	P1		4	8/27/2014	2	45 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	7
464	-2360	-2834.88	474.88	A03	P1		4	8/27/2014	2	45 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	8
465	-2728	-2629.58	-98.42	A03	P1		4	8/27/2014	2	57 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	9
466	-1944	-2629.58	685.58	A03	P1		4	8/27/2014	2	57 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	10
467	-2606	-2597.86	-8.14	A03	P1		4	8/27/2014	2	69 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	11
468	-1532	-2597.86	1065.86	A03	P1		4	8/27/2014	2	69 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	12
469	-3420	-5184.96	1764.96	A04	P1		4	9/2/2014	3	9 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1
470	-3706	-5184.96	1478.96	A04	P1		4	9/2/2014	3	9 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	2
471	-3757	-3980.74	223.74	A04	P1		4	9/2/2014	3	21 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	3
472	-3922	-3980.74	58.74	A04	P1		4	9/2/2014	3	21 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	4
473	-2960	-3255.07	295.07	A04	P1		4	9/2/2014	3	33 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5
474	-2574	-3255.07	681.07	A04	P1		4	9/2/2014	3	33 B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	6
475	-1985	-2834.88	849.88	A04	P1		4	9/2/2014	3	45 T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	7

476	-2113	-2834.88	721.88	A04	P1		4	9/2/2014	3	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	8
477	-1462	-2629.58	1167.58	A04	P1		4	9/2/2014	3	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	9
478	-1360	-2629.58	1269.58	A04	P1		4	9/2/2014	3	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	10
479	-1135	-2597.86	1462.86	A04	P1		4	9/2/2014	3	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	11
480	-1238	-2597.86	1359.86	A04	P1		4	9/2/2014	3	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	12
493	-7159	-5184.96	-1974.04	A06		17	4	9/3/2014	2	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
494	-3887	-5184.96	1297.96	A06		17	4	9/3/2014	2	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	2
495	-4031	-3980.74	-50.26	A06		17	4	9/3/2014	2	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	3
496	-4156	-3980.74	-175.26	A06		17	4	9/3/2014	2	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	4
497	-6442	-3255.07	-3186.93	A06		17	4	9/3/2014	2	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	5
498	-5289	-3255.07	-2033.93	A06		17	4	9/3/2014	2	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	6
499	-5161	-2834.88	-2326.12	A06		17	4	9/3/2014	2	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	7
500	-6008	-2834.88	-3173.12	A06		17	4	9/3/2014	2	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	8
501	-4392	-2629.58	-1762.42	A06		17	4	9/3/2014	2	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	9
502	-4134	-2629.58	-1504.42	A06		17	4	9/3/2014	2	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	10
503	-4308	-2597.86	-1710.14	A06		17	4	9/3/2014	2	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	11
504	-6155	-2597.86	-3557.14	A06		17	4	9/3/2014	2	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	12
529	-5186	-5184.96	-1.04	A09		11	4	9/4/2014	2	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
530	-5980	-5184.96	-795.04	A09		11	4	9/4/2014	2	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	2
531	-3817	-3980.74	163.74	A09		11	4	9/4/2014	2	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	3
532	-4562	-3980.74	-581.26	A09		11	4	9/4/2014	2	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	4
533	-2682	-3255.07	573.07	A09		11	4	9/4/2014	2	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	5
534	-2590	-3255.07	665.07	A09		11	4	9/4/2014	2	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	6
535	-2261	-2834.88	573.88	A09		11	4	9/4/2014	2	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	7
536	-1925	-2834.88	909.88	A09		11	4	9/4/2014	2	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	8
537	-2268	-2629.58	361.58	A09		11	4	9/4/2014	2	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	9
538	-1909	-2629.58	720.58	A09		11	4	9/4/2014	2	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	10
539	-1963	-2597.86	634.86	A09		11	4	9/4/2014	2	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	11
540	-2011	-2597.86	586.86	A09		11	4	9/4/2014	2	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	12
445	-3884	-5184.96	1300.96	A02		8	4	9/5/2014	2	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
446	-4328	-5184.96	856.96	A02		8	4	9/5/2014	2	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	2
447	-3099	-3980.74	881.74	A02		8	4	9/5/2014	2	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	3
448	-3064	-3980.74	916.74	A02		8	4	9/5/2014	2	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	4
449	-2090	-3255.07	1165.07	A02		8	4	9/5/2014	2	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	5
450	-2238	-3255.07	1017.07	A02		8	4	9/5/2014	2	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	6
451	-2653	-2834.88	181.88	A02		8	4	9/5/2014	2	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	7
452	-1952	-2834.88	882.88	A02		8	4	9/5/2014	2	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	8
453	-1656	-2629.58	973.58	A02		8	4	9/5/2014	2	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	9
454	-1470	-2629.58	1159.58	A02		8	4	9/5/2014	2	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	10
455	-1399	-2597.86	1198.86	A02		8	4	9/5/2014	2	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	11
456	-1341	-2597.86	1256.86	A02		8	4	9/5/2014	2	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	12

Max PV Freq

Variable	Time of Minimum G							
Transformation	log(abs(Time Min G))							
Table	Other Preliminary Parameters							
Model File	150120 1759 Abs Time Min G Dist2_Plate split-plot.rjp							
Excluded Values	Test P4 Channel 6 Clear low outlier; excluded by analyst without SME approval							
	Tests 27, 28 not used in model creation; used as confirmation points.							
Model		-Exp(						
			7.79677993066145 + -0.345537869774988 * ((:Distance from LSC - 39) / 30) + ((:Distance from LSC - 39) / 30) * (((:Distance from LSC - 39) / 30) * (					
			0.196999372504149) + Match(Aluminum LSC Plate,					
			0, -0.214201144626985,					
			1, 0.214201144626985,					
			)					
		)						

Table of Estimates	Average of Pred Formula Time Min G	Distance from LSC					
	Aluminum LSC Plate	9	21	33	45	57	69
	0	-3378.3	-2593.6	-2120.8	-1847.1	-1713.3	-1692.6
	1	-5185.0	-3980.7	-3255.1	-2834.9	-2629.6	-2597.9

Variance Components	Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Std Dev
	Panel No	1.8497921	**0.0775164**	0.020978	0.0364003	0.1186325	**6491.0%**	**0.278417672**
	Test No	-0.366942	**-0.015377**	0.0095668	-0.034128	0.0033737	**0.0%**	**#NUM!**
	Residual		**0.0419055**	0.0026118	0.0371249	0.0476779	**3509.0%**	**0.204708329**
	Total		**0.1194219**	0.021119	0.0868387	0.1746209	**10000.0%**	**0.345574739**

Alternate Model								

Row Labels	Count of Pred MaxESDDisp Dist2 Dist x CL noTB Plate
2.12	2
2.42	2
2.46	2
2.62	2
2.65	2
2.70	2
2.74	6
3.27	6
3.70	6
3.94	6
3.97	6
4.06	6
6.36	32
7.26	32
7.41	32
7.88	32
7.96	32
8.12	32
8.24	50
9.81	50
11.10	50
11.83	50
11.93	50
12.19	50
Grand Total	**540**

Variance Components	Variance Component	Component's Percent Share of Total Variance	Standard Deviation of Effect's Component (transformed units)
Random Effect			
Panel-to-Panel	0.0775164	64.9%	0.2784177
Test-to-Test	-0.015377	0.0%	0.0000000
Within-Test	0.0419055	35.1%	0.2047083
Total Variability Not Explained by Model	0.1194219	100.0%	0.3455747

c	Time Min G	Pred Formula Time Min G	Difference	Test No	Panel No	Group	Test Date	No of Prev Tests on Panel	Distance from LSC	Sensor Vert Posn T-B	Panel Thickness	LSC Core Load	Ply	Type	Type - Thick	LSC Plate	Aluminum LSC Plate	Acoustic Damped	Spliced LSC	Sever	0 Degree	Channel
1	-6160	-5184.96	-975.04	P1	P1	0	8/10/2012	0	9	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	1
2	-5163	-5184.96	21.96	P1	P1	0	8/10/2012	0	9	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	2
3	-3205	-3980.74	775.74	P1	P1	0	8/10/2012	0	21	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	3
4	-5198	-3980.74	-1217.26	P1	P1	0	8/10/2012	0	21	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	4
5	-3617	-3255.07	-361.93	P1	P1	0	8/10/2012	0	33	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	5
6	-3551	-3255.07	-295.93	P1	P1	0	8/10/2012	0	33	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	6
7	-4786	-2834.88	-1951.12	P1	P1	0	8/10/2012	0	45	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	7
8	-3371	-2834.88	-536.12	P1	P1	0	8/10/2012	0	45	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	8
9	-3357	-2629.58	-727.42	P1	P1	0	8/10/2012	0	57	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	9
10	-3593	-2629.58	-963.42	P1	P1	0	8/10/2012	0	57	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	10
11	-5155	-2597.86	-2557.14	P1	P1	0	8/10/2012	0	69	T	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	11
12	-3681	-2597.86	-1083.14	P1	P1	0	8/10/2012	0	69	B	0.187	10	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	12
13	-5380	-5184.96	-195.04	P2	P1	0	8/16/2012	1	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	1
14	-7321	-5184.96	-2136.04	P2	P1	0	8/16/2012	1	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	2
15	-4333	-3980.74	-352.26	P2	P1	0	8/16/2012	1	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	3
16	-6015	-3980.74	-2034.26	P2	P1	0	8/16/2012	1	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	4
17	-5349	-3255.07	-2093.93	P2	P1	0	8/16/2012	1	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	5
18	-5449	-3255.07	-2193.93	P2	P1	0	8/16/2012	1	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	6
19	-5048	-2834.88	-2213.12	P2	P1	0	8/16/2012	1	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	7
20	-4840	-2834.88	-2005.12	P2	P1	0	8/16/2012	1	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	8
21	-5584	-2629.58	-2954.42	P2	P1	0	8/16/2012	1	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	9
22	-4480	-2629.58	-1850.42	P2	P1	0	8/16/2012	1	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	10
23	-5429	-2597.86	-2831.14	P2	P1	0	8/16/2012	1	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	11
24	-6723	-2597.86	-4125.14	P2	P1	0	8/16/2012	1	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	0	1	1	12
25	-3945	-5184.96	1239.96	P3	P3	0	9/10/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
26	-3642	-5184.96	1542.96	P3	P3	0	9/10/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
27	-3097	-3980.74	883.74	P3	P3	0	9/10/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
28	-3420	-3980.74	560.74	P3	P3	0	9/10/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
29	-2869	-3255.07	386.07	P3	P3	0	9/10/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
30	-2422	-3255.07	833.07	P3	P3	0	9/10/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
31	-2973	-2834.88	-138.12	P3	P3	0	9/10/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
32	-3230	-2834.88	-395.12	P3	P3	0	9/10/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
33	-2277	-2629.58	352.58	P3	P3	0	9/10/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
34	-2312	-2629.58	317.58	P3	P3	0	9/10/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
35	-2335	-2597.86	262.86	P3	P3	0	9/10/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
36	-2569	-2597.86	28.86	P3	P3	0	9/10/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
37	-4077	-5184.96	1107.96	P4	P4	0	11/30/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
38	-5068	-5184.96	-883.04	P4	P4	0	11/30/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
39	-2222	-3980.74	1758.74	P4	P4	0	11/30/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
Value omitted	-14	-3980.74	3966.74	P4	P4	0	11/30/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
41	-2061	-3255.07	1194.07	P4	P4	0	11/30/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
42	-2976	-3255.07	279.07	P4	P4	0	11/30/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
43	-1636	-2834.88	1198.88	P4	P4	0	11/30/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
44	-1568	-2834.88	1266.88	P4	P4	0	11/30/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
45	-1570	-2629.58	1059.58	P4	P4	0	11/30/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
46	-1513	-2629.58	1116.58	P4	P4	0	11/30/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
47	-1417	-2597.86	1180.86	P4	P4	0	11/30/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
48	-1376	-2597.86	1221.86	P4	P4	0	11/30/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
49	-3837	-5184.96	1347.96	P5	P5	0	12/5/2012	0	9	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
50	-4546	-5184.96	638.96	P5	P5	0	12/5/2012	0	9	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
51	-3578	-3980.74	402.74	P5	P5	0	12/5/2012	0	21	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
52	-3808	-3980.74	172.74	P5	P5	0	12/5/2012	0	21	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
53	-3698	-3255.07	-442.93	P5	P5	0	12/5/2012	0	33	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
54	-3012	-3255.07	243.07	P5	P5	0	12/5/2012	0	33	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
55	-2545	-2834.88	289.88	P5	P5	0	12/5/2012	0	45	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
56	-2684	-2834.88	150.88	P5	P5	0	12/5/2012	0	45	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
57	-2567	-2629.58	62.58	P5	P5	0	12/5/2012	0	57	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
58	-2458	-2629.58	171.58	P5	P5	0	12/5/2012	0	57	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
59	-2926	-2597.86	-328.14	P5	P5	0	12/5/2012	0	69	T	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
60	-2489	-2597.86	108.86	P5	P5	0	12/5/2012	0	69	B	0.2	10	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
61	-5189	-5184.96	-4.04	1	1	1	1/23/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
62	-5378	-5184.96	-193.04	1	1	1	1/23/2013	0	9	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
63	-4560	-3980.74	-579.26	1	1	1	1/23/2013	0	21	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
64	-3650	-3980.74	330.74	1	1	1	1/23/2013	0	21	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
65	-3454	-3255.07	-198.93	1	1	1	1/23/2013	0	33	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
66	-3120	-3255.07	135.07	1	1	1	1/23/2013	0	33	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
67	-2637	-2834.88	197.88	1	1	1	1/23/2013	0	45	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
68	-3742	-2834.88	-907.12	1	1	1	1/23/2013	0	45	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
69	-3473	-2629.58	-843.42	1	1	1	1/23/2013	0	57	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
70	-3005	-2629.58	-375.42	1	1	1	1/23/2013	0	57	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
71	-3330	-2597.86	-732.14	1	1	1	1/23/2013	0	69	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
72	-2579	-2597.86	18.86	1	1	1	1/23/2013	0	69	B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
73	-4662	-5184.96	522.96	2	2	1	1/29/2013	0	9	T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1

74	-6908	-5184.96	-1723.04	2	2	1	1/29/2013	0	9 B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
75	-3369	-3980.74	611.74	2	2	1	1/29/2013	0	21 T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
76	-4208	-3980.74	-227.26	2	2	1	1/29/2013	0	21 B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
77	-3547	-3255.07	-291.93	2	2	1	1/29/2013	0	33 T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
78	-3038	-3255.07	217.07	2	2	1	1/29/2013	0	33 B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
79	-3377	-2834.88	-542.12	2	2	1	1/29/2013	0	45 T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
80	-2697	-2834.88	137.88	2	2	1	1/29/2013	0	45 B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
81	-3376	-2629.58	-746.42	2	2	1	1/29/2013	0	57 T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
82	-2547	-2629.58	82.58	2	2	1	1/29/2013	0	57 B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
83	-2851	-2597.86	-253.14	2	2	1	1/29/2013	0	69 T	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
84	-2805	-2597.86	-207.14	2	2	1	1/29/2013	0	69 B	0.2	10	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
109	-4228	-5184.96	956.96	4	4	1	2/5/2013	0	9 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
110	-5341	-5184.96	-156.04	4	4	1	2/5/2013	0	9 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
111	-3269	-3980.74	711.74	4	4	1	2/5/2013	0	21 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
112	-3269	-3980.74	711.74	4	4	1	2/5/2013	0	21 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
113	-3166	-3255.07	89.07	4	4	1	2/5/2013	0	33 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
114	-3356	-3255.07	-100.93	4	4	1	2/5/2013	0	33 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
115	-2400	-2834.88	434.88	4	4	1	2/5/2013	0	45 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
116	-2850	-2834.88	-15.12	4	4	1	2/5/2013	0	45 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
117	-2567	-2629.58	62.58	4	4	1	2/5/2013	0	57 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
118	-2068	-2629.58	561.58	4	4	1	2/5/2013	0	57 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
119	-2123	-2597.86	474.86	4	4	1	2/5/2013	0	69 T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
120	-2657	-2597.86	-59.14	4	4	1	2/5/2013	0	69 B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
97	-5650	-5184.96	-465.04	3	3	1	2/8/2013	0	9 T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
98	-5609	-5184.96	-424.04	3	3	1	2/8/2013	0	9 B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
99	-4086	-3980.74	-105.26	3	3	1	2/8/2013	0	21 T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
100	-3267	-3980.74	713.74	3	3	1	2/8/2013	0	21 B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
101	-3259	-3255.07	-3.93	3	3	1	2/8/2013	0	33 T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
102	-4771	-3255.07	-1515.93	3	3	1	2/8/2013	0	33 B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
103	-2284	-2834.88	550.88	3	3	1	2/8/2013	0	45 T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
104	-2311	-2834.88	523.88	3	3	1	2/8/2013	0	45 B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
105	-2734	-2629.58	-104.42	3	3	1	2/8/2013	0	57 T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
106	-2833	-2629.58	-203.42	3	3	1	2/8/2013	0	57 B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
107	-2439	-2597.86	158.86	3	3	1	2/8/2013	0	69 T	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
108	-2638	-2597.86	-40.14	3	3	1	2/8/2013	0	69 B	0.3	10	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
133	-4943	-5184.96	241.96	5	5	1	2/22/2013	0	9 T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
134	-5495	-5184.96	-310.04	5	5	1	2/22/2013	0	9 B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
135	-3593	-3980.74	387.74	5	5	1	2/22/2013	0	21 T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
136	-6056	-3980.74	-2075.26	5	5	1	2/22/2013	0	21 B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
137	-4966	-3255.07	-1710.93	5	5	1	2/22/2013	0	33 T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
138	-5534	-3255.07	-2278.93	5	5	1	2/22/2013	0	33 B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
139	-4211	-2834.88	-1376.12	5	5	1	2/22/2013	0	45 T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
140	-3615	-2834.88	-780.12	5	5	1	2/22/2013	0	45 B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
141	-4198	-2629.58	-1568.42	5	5	1	2/22/2013	0	57 T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
142	-2816	-2629.58	-186.42	5	5	1	2/22/2013	0	57 B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
143	-3298	-2597.86	-700.14	5	5	1	2/22/2013	0	69 T	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
144	-3706	-2597.86	-1108.14	5	5	1	2/22/2013	0	69 B	0.2	22	Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
145	-7215	-5184.96	-2030.04	6	6	1	5/8/2013	0	9 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	1
146	-6960	-5184.96	-1775.04	6	6	1	5/8/2013	0	9 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	2
147	-5202	-3980.74	-1221.26	6	6	1	5/8/2013	0	21 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	3
148	-3761	-3980.74	219.74	6	6	1	5/8/2013	0	21 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	4
149	-2991	-3255.07	264.07	6	6	1	5/8/2013	0	33 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	5
150	-3667	-3255.07	-411.93	6	6	1	5/8/2013	0	33 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	6
151	-3507	-2834.88	-672.12	6	6	1	5/8/2013	0	45 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	7
152	-2790	-2834.88	44.88	6	6	1	5/8/2013	0	45 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	8
153	-3269	-2629.58	-639.42	6	6	1	5/8/2013	0	57 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	9
154	-3579	-2629.58	-949.42	6	6	1	5/8/2013	0	57 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	10
155	-3276	-2597.86	-678.14	6	6	1	5/8/2013	0	69 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	11
156	-2746	-2597.86	-148.14	6	6	1	5/8/2013	0	69 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	0	12
157	-6799	-5184.96	-1614.04	7	7	1	5/9/2013	0	9 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
158	-7559	-5184.96	-2374.04	7	7	1	5/9/2013	0	9 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
159	-5258	-3980.74	-1277.26	7	7	1	5/9/2013	0	21 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
160	-3526	-3980.74	454.74	7	7	1	5/9/2013	0	21 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
161	-3262	-3255.07	-6.93	7	7	1	5/9/2013	0	33 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
162	-4083	-3255.07	-827.93	7	7	1	5/9/2013	0	33 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
163	-3183	-2834.88	-348.12	7	7	1	5/9/2013	0	45 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
164	-3333	-2834.88	-498.12	7	7	1	5/9/2013	0	45 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
165	-3988	-2629.58	-1358.42	7	7	1	5/9/2013	0	57 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
166	-2792	-2629.58	-162.42	7	7	1	5/9/2013	0	57 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
167	-4540	-2597.86	-1942.14	7	7	1	5/9/2013	0	69 T	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
168	-2467	-2597.86	130.86	7	7	1	5/9/2013	0	69 B	0.2	22	Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
169	-6655	-5184.96	-1470.04	8	8	1	5/16/2013	0	9 T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
170	-5372	-5184.96	-187.04	8	8	1	5/16/2013	0	9 B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
171	-4004	-3980.74	-23.26	8	8	1	5/16/2013	0	21 T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
172	-6717	-3980.74	-2736.26	8	8	1	5/16/2013	0	21 B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
173	-4715	-3255.07	-1459.93	8	8	1	5/16/2013	0	33 T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
174	-2585	-3255.07	670.07	8	8	1	5/16/2013	0	33 B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
175	-4005	-2834.88	-1170.12	8	8	1	5/16/2013	0	45 T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
176	-2336	-2834.88	498.88	8	8	1	5/16/2013	0	45 B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
177	-3004	-2629.58	-374.42	8	8	1	5/16/2013	0	57 T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
178	-2769	-2629.58	-139.42	8	8	1	5/16/2013	0	57 B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
179	-2439	-2597.86	158.86	8	8	1	5/16/2013	0	69 T	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
180	-2207	-2597.86	390.86	8	8	1	5/16/2013	0	69 B	0.3	10	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
181	-4135	-5184.96	1049.96	9	9	1	5/17/2013	0	9 T	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
182	-5255	-5184.96	-70.04	9	9	1	5/17/2013	0	9 B	0.3	22	Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2

183	-3755	-3980.74	225.74	9	9	1	5/17/2013	0	21 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
184	-4634	-3980.74	-653.26	9	9	1	5/17/2013	0	21 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
185	-3949	-3255.07	-693.93	9	9	1	5/17/2013	0	33 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
186	-4916	-3255.07	-1660.93	9	9	1	5/17/2013	0	33 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
187	-4617	-2834.88	-1782.12	9	9	1	5/17/2013	0	45 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
188	-2902	-2834.88	-67.12	9	9	1	5/17/2013	0	45 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
189	-3205	-2629.58	-575.42	9	9	1	5/17/2013	0	57 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
190	-2821	-2629.58	-191.42	9	9	1	5/17/2013	0	57 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
191	-3414	-2597.86	-816.14	9	9	1	5/17/2013	0	69 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
192	-2240	-2597.86	357.86	9	9	1	5/17/2013	0	69 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
205	-8246	-5184.96	-3061.04	10	10	1	5/29/2013	0	9 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
206	-8688	-5184.96	-3503.04	10	10	1	5/29/2013	0	9 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
207	-4494	-3980.74	-513.26	10	10	1	5/29/2013	0	21 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
208	-5865	-3980.74	-2884.26	10	10	1	5/29/2013	0	21 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
209	-4817	-3255.07	-1561.93	10	10	1	5/29/2013	0	33 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
210	-4848	-3255.07	-1592.93	10	10	1	5/29/2013	0	33 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
211	-3574	-2834.88	-739.12	10	10	1	5/29/2013	0	45 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
212	-4584	-2834.88	-1749.12	10	10	1	5/29/2013	0	45 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
213	-3869	-2629.58	-1239.42	10	10	1	5/29/2013	0	57 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
214	-3239	-2629.58	-609.42	10	10	1	5/29/2013	0	57 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
215	-3463	-2597.86	-865.14	10	10	1	5/29/2013	0	69 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
216	-4004	-2597.86	-1406.14	10	10	1	5/29/2013	0	69 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
229	-6463	-5184.96	-1278.04	11	11	2	5/31/2013	0	9 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	1
230	-4751	-5184.96	433.96	11	11	2	5/31/2013	0	9 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	2
231	-5014	-3980.74	-1033.26	11	11	2	5/31/2013	0	21 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	3
232	-3518	-3980.74	462.74	11	11	2	5/31/2013	0	21 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	4
233	-3441	-3255.07	-185.93	11	11	2	5/31/2013	0	33 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	5
234	-3063	-3255.07	192.07	11	11	2	5/31/2013	0	33 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	6
235	-3790	-2834.88	-955.12	11	11	2	5/31/2013	0	45 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	7
236	-3237	-2834.88	-402.12	11	11	2	5/31/2013	0	45 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	8
237	-3684	-2629.58	-1054.42	11	11	2	5/31/2013	0	57 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	9
238	-2686	-2629.58	-56.42	11	11	2	5/31/2013	0	57 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	10
239	-2444	-2597.86	153.86	11	11	2	5/31/2013	0	69 T	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	11
240	-2198	-2597.86	399.86	11	11	2	5/31/2013	0	69 B	1	10 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	12
241	-6886	-5184.96	-1701.04	12	14	2	6/28/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
242	-6553	-5184.96	-1368.04	12	14	2	6/28/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
243	-3868	-3980.74	112.74	12	14	2	6/28/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
244	-2930	-3980.74	1050.74	12	14	2	6/28/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
245	-3611	-3255.07	644.07	12	14	2	6/28/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
246	-2369	-3255.07	886.07	12	14	2	6/28/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
247	-2390	-2834.88	444.88	12	14	2	6/28/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
248	-2219	-2834.88	615.88	12	14	2	6/28/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
249	-3148	-2629.58	-518.42	12	14	2	6/28/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
250	-2654	-2629.58	-24.42	12	14	2	6/28/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
251	-2410	-2597.86	187.86	12	14	2	6/28/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
252	-2066	-2597.86	531.86	12	14	2	6/28/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
253	-2727	-5184.96	2457.96	13	13	2	7/16/2013	0	9 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
254	-3696	-5184.96	1488.96	13	13	2	7/16/2013	0	9 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
255	-2275	-3980.74	1705.74	13	13	2	7/16/2013	0	21 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
256	-2856	-3980.74	1124.74	13	13	2	7/16/2013	0	21 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
257	-1592	-3255.07	1663.07	13	13	2	7/16/2013	0	33 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
258	-1475	-3255.07	1780.07	13	13	2	7/16/2013	0	33 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
259	-2086	-2834.88	748.88	13	13	2	7/16/2013	0	45 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
260	-2091	-2834.88	743.88	13	13	2	7/16/2013	0	45 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
261	-2057	-2629.58	572.58	13	13	2	7/16/2013	0	57 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
262	-2142	-2629.58	487.58	13	13	2	7/16/2013	0	57 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
263	-1499	-2597.86	1098.86	13	13	2	7/16/2013	0	69 T	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
264	-1527	-2597.86	1070.86	13	13	2	7/16/2013	0	69 B	1	10 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
265	-5086	-5184.96	98.96	14	12	2	7/17/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
266	-5088	-5184.96	96.96	14	12	2	7/17/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
267	-3421	-3980.74	559.74	14	12	2	7/17/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
268	-5016	-3980.74	-1035.26	14	12	2	7/17/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
269	-2826	-3255.07	429.07	14	12	2	7/17/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
270	-2349	-3255.07	906.07	14	12	2	7/17/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
271	-3067	-2834.88	-232.12	14	12	2	7/17/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
272	-3051	-2834.88	-216.12	14	12	2	7/17/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
273	-3112	-2629.58	-482.42	14	12	2	7/17/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
274	-2848	-2629.58	-218.42	14	12	2	7/17/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
275	-2947	-2597.86	-349.14	14	12	2	7/17/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
276	-3251	-2597.86	-653.14	14	12	2	7/17/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
277	-5884	-5184.96	-699.04	15	16	2	7/18/2013	0	9 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
278	-6295	-5184.96	-1110.04	15	16	2	7/18/2013	0	9 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
279	-4473	-3980.74	-492.26	15	16	2	7/18/2013	0	21 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
280	-2945	-3980.74	1035.74	15	16	2	7/18/2013	0	21 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
281	-3628	-3255.07	-372.93	15	16	2	7/18/2013	0	33 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
282	-2638	-3255.07	617.07	15	16	2	7/18/2013	0	33 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
283	-3137	-2834.88	-302.12	15	16	2	7/18/2013	0	45 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
284	-2591	-2834.88	243.88	15	16	2	7/18/2013	0	45 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
285	-3123	-2629.58	-493.42	15	16	2	7/18/2013	0	57 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
286	-2933	-2629.58	-303.42	15	16	2	7/18/2013	0	57 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
287	-3248	-2597.86	-650.14	15	16	2	7/18/2013	0	69 T	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
288	-2948	-2597.86	-350.14	15	16	2	7/18/2013	0	69 B	1	22 Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
289	-6597	-5184.96	-1412.04	16	18	2	7/23/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
290	-6612	-5184.96	-1427.04	16	18	2	7/23/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
291	-4633	-3980.74	-652.26	16	18	2	7/23/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3

292	-3795	-3980.74	185.74	16	18	2	7/23/2013	0	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
293	-2877	-3255.07	378.07	16	18	2	7/23/2013	0	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
294	-2181	-3255.07	1074.07	16	18	2	7/23/2013	0	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
295	-2787	-2834.88	47.88	16	18	2	7/23/2013	0	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
296	-2721	-2834.88	113.88	16	18	2	7/23/2013	0	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
297	-3310	-2629.58	-680.42	16	18	2	7/23/2013	0	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
298	-2881	-2629.58	-251.42	16	18	2	7/23/2013	0	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
299	-2449	-2597.86	148.86	16	18	2	7/23/2013	0	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
300	-2482	-2597.86	115.86	16	18	2	7/23/2013	0	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
301	-3837	-5184.96	1347.96	17	15	2	8/9/2013	0	9	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
302	-5129	-5184.96	55.96	17	15	2	8/9/2013	0	9	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
303	-3421	-3980.74	559.74	17	15	2	8/9/2013	0	21	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
304	-3491	-3980.74	489.74	17	15	2	8/9/2013	0	21	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
305	-2497	-3255.07	758.07	17	15	2	8/9/2013	0	33	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
306	-2242	-3255.07	1013.07	17	15	2	8/9/2013	0	33	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
307	-2650	-2834.88	184.88	17	15	2	8/9/2013	0	45	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
308	-3122	-2834.88	-287.12	17	15	2	8/9/2013	0	45	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
309	-2689	-2629.58	-59.42	17	15	2	8/9/2013	0	57	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
310	-2355	-2629.58	274.58	17	15	2	8/9/2013	0	57	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
311	-3084	-2597.86	-486.14	17	15	2	8/9/2013	0	69	T	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
312	-2974	-2597.86	-376.14	17	15	2	8/9/2013	0	69	B	1	10	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
313	-3173	-5184.96	2011.96	18	17	2	8/19/2013	0	9	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
314	-3608	-5184.96	1576.96	18	17	2	8/19/2013	0	9	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
315	-3049	-3980.74	931.74	18	17	2	8/19/2013	0	21	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
316	-3171	-3980.74	809.74	18	17	2	8/19/2013	0	21	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
317	-1932	-3255.07	1323.07	18	17	2	8/19/2013	0	33	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
318	-1666	-3255.07	1589.07	18	17	2	8/19/2013	0	33	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
319	-1866	-2834.88	968.88	18	17	2	8/19/2013	0	45	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
320	-1467	-2834.88	1367.88	18	17	2	8/19/2013	0	45	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
321	-1866	-2629.58	763.58	18	17	2	8/19/2013	0	57	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
322	-1545	-2629.58	1084.58	18	17	2	8/19/2013	0	57	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
323	-1537	-2597.86	1060.86	18	17	2	8/19/2013	0	69	T	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
324	-1281	-2597.86	1316.86	18	17	2	8/19/2013	0	69	B	1	10	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
325	-2987	-3378.26	391.26	19	19	3	10/31/2013	0	9	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	1
326	-3387	-3378.26	-8.74	19	19	3	10/31/2013	0	9	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	2
327	-1860	-2593.65	733.65	19	19	3	10/31/2013	0	21	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	3
328	-3055	-2593.65	-462.35	19	19	3	10/31/2013	0	21	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	4
329	-2370	-2120.84	-249.16	19	19	3	10/31/2013	0	33	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	5
330	-1961	-2120.84	159.84	19	19	3	10/31/2013	0	33	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	6
331	-1380	-1847.06	467.06	19	19	3	10/31/2013	0	45	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	7
332	-1996	-1847.06	-148.94	19	19	3	10/31/2013	0	45	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	8
333	-1701	-1713.30	12.30	19	19	3	10/31/2013	0	57	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	9
334	-1906	-1713.30	-192.70	19	19	3	10/31/2013	0	57	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	10
335	-1570	-1692.63	122.63	19	19	3	10/31/2013	0	69	T	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	11
336	-1732	-1692.63	-39.37	19	19	3	10/31/2013	0	69	B	1	10	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	0	1	12
337	-6746	-3378.26	-3367.74	20	20	3	11/19/2013	0	9	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	1
338	-7679	-3378.26	-4300.74	20	20	3	11/19/2013	0	9	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	2
339	-5374	-2593.65	-2780.35	20	20	3	11/19/2013	0	21	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	3
340	-4579	-2593.65	-1985.35	20	20	3	11/19/2013	0	21	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	4
341	-5214	-2120.84	-3093.16	20	20	3	11/19/2013	0	33	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	5
342	-5167	-2120.84	-3046.16	20	20	3	11/19/2013	0	33	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	6
343	-3131	-1847.06	-1283.94	20	20	3	11/19/2013	0	45	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	7
344	-3006	-1847.06	-1158.94	20	20	3	11/19/2013	0	45	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	8
345	-2658	-1713.30	-944.70	20	20	3	11/19/2013	0	57	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	9
346	-1920	-1713.30	-206.70	20	20	3	11/19/2013	0	57	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	10
347	-1530	-1692.63	162.63	20	20	3	11/19/2013	0	69	T	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	11
348	-1130	-1692.63	562.63	20	20	3	11/19/2013	0	69	B	1	22	Fabric	Rohacell	Rohacell - 1	Fabric Compc	0	0	0	1	1	12
361	-4099	-5184.96	1085.96	22	22	3	11/25/2013	0	9	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	1
362	-3129	-5184.96	2055.96	22	22	3	11/25/2013	0	9	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	2
363	-2076	-3980.74	1904.74	22	22	3	11/25/2013	0	21	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	3
364	-2885	-3980.74	1095.74	22	22	3	11/25/2013	0	21	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	4
365	-2023	-3255.07	1232.07	22	22	3	11/25/2013	0	33	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	5
366	-1532	-3255.07	1723.07	22	22	3	11/25/2013	0	33	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	6
367	-1236	-2834.88	1598.88	22	22	3	11/25/2013	0	45	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	7
368	-1121	-2834.88	1713.88	22	22	3	11/25/2013	0	45	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	8
369	-1178	-2629.58	1451.58	22	22	3	11/25/2013	0	57	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	9
370	-1276	-2629.58	1353.58	22	22	3	11/25/2013	0	57	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	10
371	-1136	-2597.86	1461.86	22	22	3	11/25/2013	0	69	T	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	11
372	-1169	-2597.86	1428.86	22	22	3	11/25/2013	0	69	B	1	10	Fabric	Rohacell	Rohacell - 1	Aluminum	1	0	0	0	1	12
349	-5422	-5184.96	-237.04	21	21	3	12/4/2013	0	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
350	-5769	-5184.96	-584.04	21	21	3	12/4/2013	0	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
351	-3707	-3980.74	273.74	21	21	3	12/4/2013	0	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
352	-4652	-3980.74	-671.26	21	21	3	12/4/2013	0	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
353	-3055	-3255.07	200.07	21	21	3	12/4/2013	0	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
354	-2222	-3255.07	1033.07	21	21	3	12/4/2013	0	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
355	-3345	-2834.88	-510.12	21	21	3	12/4/2013	0	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
356	-3133	-2834.88	-298.12	21	21	3	12/4/2013	0	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
357	-3670	-2629.58	-1040.42	21	21	3	12/4/2013	0	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
358	-3159	-2629.58	-529.42	21	21	3	12/4/2013	0	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
359	-3238	-2597.86	-640.14	21	21	3	12/4/2013	0	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
360	-2970	-2597.86	-372.14	21	21	3	12/4/2013	0	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
121	-7668	-5184.96	-2483.04	4R	4	1	12/12/2013	1	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
122	-4887	-5184.96	297.96	4R	4	1	12/12/2013	1	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2

123	-4298	-3980.74	-317.26	4R		4	1	12/12/2013	1	21 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
124	-5202	-3980.74	-1221.26	4R		4	1	12/12/2013	1	21 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
125	-4053	-3255.07	-797.93	4R		4	1	12/12/2013	1	33 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
126	-3142	-3255.07	113.07	4R		4	1	12/12/2013	1	33 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
127	-2928	-2834.88	-93.12	4R		4	1	12/12/2013	1	45 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
128	-2599	-2834.88	235.88	4R		4	1	12/12/2013	1	45 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
129	-2607	-2629.58	22.58	4R		4	1	12/12/2013	1	57 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
130	-1996	-2629.58	633.58	4R		4	1	12/12/2013	1	57 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
131	-2961	-2597.86	-363.14	4R		4	1	12/12/2013	1	69 T	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
132	-3081	-2597.86	-483.14	4R		4	1	12/12/2013	1	69 B	0.3	22 Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
85	-5489	-5184.96	-304.04	2R		2	1	12/16/2013	1	9 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	1
86	-4654	-5184.96	530.96	2R		2	1	12/16/2013	1	9 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	2
87	-4120	-3980.74	-139.26	2R		2	1	12/16/2013	1	21 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	3
88	-3954	-3980.74	26.74	2R		2	1	12/16/2013	1	21 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	4
89	-3700	-3255.07	-444.93	2R		2	1	12/16/2013	1	33 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	5
90	-3549	-3255.07	-293.93	2R		2	1	12/16/2013	1	33 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	6
91	-3478	-2834.88	-643.12	2R		2	1	12/16/2013	1	45 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	7
92	-3203	-2834.88	-368.12	2R		2	1	12/16/2013	1	45 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	8
93	-3554	-2629.58	-924.42	2R		2	1	12/16/2013	1	57 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	9
94	-2503	-2629.58	126.58	2R		2	1	12/16/2013	1	57 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	10
95	-3783	-2597.86	-1185.14	2R		2	1	12/16/2013	1	69 T	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	11
96	-2536	-2597.86	61.86	2R		2	1	12/16/2013	1	69 B	0.2	22 Fabric	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	1	1	12
409	-2642	-3378.26	736.26		26	26	3	12/18/2013	0	9 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	1
410	-1810	-3378.26	1568.26		26	26	3	12/18/2013	0	9 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	2
411	-1203	-2593.65	1390.65		26	26	3	12/18/2013	0	21 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	3
412	-1595	-2593.65	998.65		26	26	3	12/18/2013	0	21 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	4
413	-2024	-2120.84	96.84		26	26	3	12/18/2013	0	33 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	5
414	-2139	-2120.84	-18.16		26	26	3	12/18/2013	0	33 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	6
415	-2272	-1847.06	-424.94		26	26	3	12/18/2013	0	45 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	7
416	-2492	-1847.06	-644.94		26	26	3	12/18/2013	0	45 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	8
417	-2134	-1713.30	-420.70		26	26	3	12/18/2013	0	57 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	9
418	-1681	-1713.30	32.30		26	26	3	12/18/2013	0	57 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	10
419	-1660	-1692.63	32.63		26	26	3	12/18/2013	0	69 T	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	11
420	-1404	-1692.63	288.63		26	26	3	12/18/2013	0	69 B	1	22 Tape	Rohacell	Rohacell - 1	Tape Compos	0	0	0	1	1	12
217	-4947	-5184.96	237.96	10R		10	1	1/16/2014	1	9 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	1
218	-5027	-5184.96	157.96	10R		10	1	1/16/2014	1	9 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	2
219	-4901	-3980.74	-920.26	10R		10	1	1/16/2014	1	21 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	3
220	-4255	-3980.74	-274.26	10R		10	1	1/16/2014	1	21 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	4
221	-3319	-3255.07	-63.93	10R		10	1	1/16/2014	1	33 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	5
222	-3718	-3255.07	-462.93	10R		10	1	1/16/2014	1	33 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	6
223	-3326	-2834.88	-491.12	10R		10	1	1/16/2014	1	45 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	7
224	-3260	-2834.88	-425.12	10R		10	1	1/16/2014	1	45 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	8
225	-3080	-2629.58	-450.42	10R		10	1	1/16/2014	1	57 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	9
226	-2604	-2629.58	25.58	10R		10	1	1/16/2014	1	57 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	10
227	-3821	-2597.86	-1223.14	10R		10	1	1/16/2014	1	69 T	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	11
228	-3107	-2597.86	-509.14	10R		10	1	1/16/2014	1	69 B	0.2	10 Tape	Monolithic	Monolithic - 0.2	Aluminum	1	0	0	0	1	12
193	-6681	-5184.96	-1496.04	9R		9	1	1/23/2014	1	9 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
194	-4445	-5184.96	739.96	9R		9	1	1/23/2014	1	9 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
195	-4896	-3980.74	-915.26	9R		9	1	1/23/2014	1	21 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
196	-3521	-3980.74	459.74	9R		9	1	1/23/2014	1	21 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
197	-4107	-3255.07	-851.93	9R		9	1	1/23/2014	1	33 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
198	-4105	-3255.07	-850.93	9R		9	1	1/23/2014	1	33 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
199	-3243	-2834.88	-408.12	9R		9	1	1/23/2014	1	45 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
200	-3134	-2834.88	-299.12	9R		9	1	1/23/2014	1	45 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
201	-3136	-2629.58	-506.42	9R		9	1	1/23/2014	1	57 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
202	-2291	-2629.58	338.58	9R		9	1	1/23/2014	1	57 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
203	-2812	-2597.86	-214.14	9R		9	1	1/23/2014	1	69 T	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
204	-2735	-2597.86	-137.14	9R		9	1	1/23/2014	1	69 B	0.3	22 Tape	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
373	-5017	-5184.96	167.96		23	23	3	4/18/2014	0	9 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	1
374	-5056	-5184.96	-871.04		23	23	3	4/18/2014	0	9 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	2
375	-3179	-3980.74	801.74		23	23	3	4/18/2014	0	21 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	3
376	-2533	-3980.74	1447.74		23	23	3	4/18/2014	0	21 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	4
377	-2982	-3255.07	273.07		23	23	3	4/18/2014	0	33 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	5
378	-2798	-3255.07	457.07		23	23	3	4/18/2014	0	33 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	6
379	-2613	-2834.88	221.88		23	23	3	4/18/2014	0	45 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	7
380	-2113	-2834.88	721.88		23	23	3	4/18/2014	0	45 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	8
381	-2564	-2629.58	65.58		23	23	3	4/18/2014	0	57 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	9
382	-2296	-2629.58	333.58		23	23	3	4/18/2014	0	57 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	10
383	-2778	-2597.86	-180.14		23	23	3	4/18/2014	0	69 T	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	11
384	-2802	-2597.86	-204.14		23	23	3	4/18/2014	0	69 B	1	10 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	0	1	12
385	-3214	-5184.96	1970.96		24	24	3	4/22/2014	0	9 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
386	-6845	-5184.96	-1660.04		24	24	3	4/22/2014	0	9 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
387	-3959	-3980.74	21.74		24	24	3	4/22/2014	0	21 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
388	-3112	-3980.74	868.74		24	24	3	4/22/2014	0	21 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
389	-2578	-3255.07	677.07		24	24	3	4/22/2014	0	33 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
390	-2696	-3255.07	559.07		24	24	3	4/22/2014	0	33 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
391	-2513	-2834.88	321.88		24	24	3	4/22/2014	0	45 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
392	-2085	-2834.88	749.88		24	24	3	4/22/2014	0	45 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
393	-2768	-2629.58	-138.42		24	24	3	4/22/2014	0	57 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
394	-2032	-2629.58	597.58		24	24	3	4/22/2014	0	57 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
395	-2211	-2597.86	386.86		24	24	3	4/22/2014	0	69 T	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
396	-2952	-2597.86	-354.14		24	24	3	4/22/2014	0	69 B	1	22 Fabric	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
397	-2283	-3378.26	1095.26		25	25	3	6/10/2014	0	9 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	1
398	-1676	-3378.26	1702.26		25	25	3	6/10/2014	0	9 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	2
399	-1631	-2593.65	962.65		25	25	3	6/10/2014	0	21 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	3
400	-1486	-2593.65	1107.65		25	25	3	6/10/2014	0	21 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	4
401	-1345	-2120.84	775.84		25	25	3	6/10/2014	0	33 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	5
402	-1423	-2120.84	697.84		25	25	3	6/10/2014	0	33 B	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	6
403	-2586	-1847.06	-738.94		25	25	3	6/10/2014	0	45 T	1	22 Fabric	Al Honey	Al Honey - 1	Fabric Compo	0	0	0	1	1	7

404	-1861	-1847.06	-13.94	25	25	3	6/10/2014	0	45	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1	1	8
405	-1419	-1713.30	294.30	25	25	3	6/10/2014	0	57	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1	1	9
406	-1189	-1713.30	524.30	25	25	3	6/10/2014	0	57	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1	1	10
407	-1351	-1692.63	341.63	25	25	3	6/10/2014	0	69	T	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1	1	11
408	-1422	-1692.63	270.63	25	25	3	6/10/2014	0	69	B	1	22	Fabric	Al Honey	Al Honey - 1	Fabric Compc	0	0	0	1	1	12
481	-5779	-5184.96	-3594.04	A05	17	4	8/20/2014	1	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	1
482	-10529	-5184.96	-5344.04	A05	17	4	8/20/2014	1	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	2
483	-5423	-3980.74	-1442.26	A05	17	4	8/20/2014	1	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	3
484	-4780	-3980.74	-799.26	A05	17	4	8/20/2014	1	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	4
485	-3575	-3255.07	-319.93	A05	17	4	8/20/2014	1	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	5
486	-3368	-3255.07	-112.93	A05	17	4	8/20/2014	1	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	6
487	-3760	-2834.88	-925.12	A05	17	4	8/20/2014	1	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	7
488	-2996	-2834.88	-161.12	A05	17	4	8/20/2014	1	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	8
489	-4044	-2629.58	-1414.42	A05	17	4	8/20/2014	1	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	9
490	-3619	-2629.58	-989.42	A05	17	4	8/20/2014	1	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	10
491	-2724	-2597.86	-126.14	A05	17	4	8/20/2014	1	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	11
492	-2828	-2597.86	-230.14	A05	17	4	8/20/2014	1	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	0	0	1	1	12
433	-7487	-5184.96	-2302.04	A10	12	4	8/21/2014	1	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	1
434	-7280	-5184.96	-2095.04	A10	12	4	8/21/2014	1	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	2
435	-6210	-3980.74	-2229.26	A10	12	4	8/21/2014	1	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	3
436	-4581	-3980.74	-600.26	A10	12	4	8/21/2014	1	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	4
437	-4159	-3255.07	-903.93	A10	12	4	8/21/2014	1	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	5
438	-3135	-3255.07	120.07	A10	12	4	8/21/2014	1	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	6
439	-3846	-2834.88	-1011.12	A10	12	4	8/21/2014	1	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	7
440	-2639	-2834.88	195.88	A10	12	4	8/21/2014	1	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	8
441	-2806	-2629.58	-176.42	A10	12	4	8/21/2014	1	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	9
442	-2623	-2629.58	6.58	A10	12	4	8/21/2014	1	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	10
443	-2591	-2597.86	6.86	A10	12	4	8/21/2014	1	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	11
444	-2476	-2597.86	121.86	A10	12	4	8/21/2014	1	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	0	1	1	12
421	-3636	-5184.96	1548.96	A01	8	4	8/25/2014	1	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	1
422	-3829	-5184.96	1355.96	A01	8	4	8/25/2014	1	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	2
423	-4292	-3980.74	-311.26	A01	8	4	8/25/2014	1	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	3
424	-4054	-3980.74	-73.26	A01	8	4	8/25/2014	1	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	4
425	-3150	-3255.07	105.07	A01	8	4	8/25/2014	1	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	5
426	-2257	-3255.07	998.07	A01	8	4	8/25/2014	1	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	6
427	-2545	-2834.88	289.88	A01	8	4	8/25/2014	1	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	7
428	-2251	-2834.88	583.88	A01	8	4	8/25/2014	1	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	8
429	-2497	-2629.58	132.58	A01	8	4	8/25/2014	1	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	9
430	-2314	-2629.58	315.58	A01	8	4	8/25/2014	1	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	10
431	-2260	-2597.86	337.86	A01	8	4	8/25/2014	1	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	11
432	-2022	-2597.86	575.86	A01	8	4	8/25/2014	1	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	0	0	1	1	12
505	-5961	-5184.96	-776.04	A07	18	4	8/26/2014	1	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	1
506	-6894	-5184.96	-1709.04	A07	18	4	8/26/2014	1	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	2
507	-7264	-3980.74	-3283.26	A07	18	4	8/26/2014	1	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	3
508	-3611	-3980.74	369.74	A07	18	4	8/26/2014	1	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	4
509	-4042	-3255.07	-786.93	A07	18	4	8/26/2014	1	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	5
510	-4088	-3255.07	-832.93	A07	18	4	8/26/2014	1	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	6
511	-3683	-2834.88	-848.12	A07	18	4	8/26/2014	1	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	7
512	-3402	-2834.88	-567.12	A07	18	4	8/26/2014	1	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	8
513	-3018	-2629.58	-388.42	A07	18	4	8/26/2014	1	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	9
514	-4250	-2629.58	-1620.42	A07	18	4	8/26/2014	1	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	10
515	-3530	-2597.86	-932.14	A07	18	4	8/26/2014	1	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	11
516	-3890	-2597.86	-1292.14	A07	18	4	8/26/2014	1	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	0	1	1	12
517	-3600	-5184.96	1584.96	A08	11	4	8/26/2014	1	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	1
518	-4699	-5184.96	485.96	A08	11	4	8/26/2014	1	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	2
519	-4118	-3980.74	-137.26	A08	11	4	8/26/2014	1	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	3
520	-3125	-3980.74	855.74	A08	11	4	8/26/2014	1	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	4
521	-3536	-3255.07	-280.93	A08	11	4	8/26/2014	1	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	5
522	-2684	-3255.07	571.07	A08	11	4	8/26/2014	1	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	6
523	-1635	-2834.88	1199.88	A08	11	4	8/26/2014	1	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	7
524	-2381	-2834.88	453.88	A08	11	4	8/26/2014	1	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	8
525	-1881	-2629.58	748.58	A08	11	4	8/26/2014	1	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	9
526	-1592	-2629.58	1037.58	A08	11	4	8/26/2014	1	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	10
527	-1660	-2597.86	937.86	A08	11	4	8/26/2014	1	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	11
528	-1860	-2597.86	737.86	A08	11	4	8/26/2014	1	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	0	0	1	1	12
457	-4998	-5184.96	186.96	A03	P1	4	8/27/2014	2	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	1
458	-6685	-5184.96	-1500.04	A03	P1	4	8/27/2014	2	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	2
459	-3077	-3980.74	903.74	A03	P1	4	8/27/2014	2	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	3
460	-3033	-3980.74	947.74	A03	P1	4	8/27/2014	2	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	4
461	-3713	-3255.07	-457.93	A03	P1	4	8/27/2014	2	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	5
462	-2919	-3255.07	336.07	A03	P1	4	8/27/2014	2	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	6
463	-2775	-2834.88	59.88	A03	P1	4	8/27/2014	2	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	7
464	-2360	-2834.88	474.88	A03	P1	4	8/27/2014	2	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	8
465	-2728	-2629.58	-98.42	A03	P1	4	8/27/2014	2	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	9
466	-1944	-2629.58	685.58	A03	P1	4	8/27/2014	2	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	10
467	-2606	-2597.86	-8.14	A03	P1	4	8/27/2014	2	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	11
468	-1532	-2597.86	1065.86	A03	P1	4	8/27/2014	2	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	0	1	1	1	12
469	-3420	-5184.96	1764.96	A04	P1	4	9/2/2014	3	9	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	1

470	-3706	-5184.96	1478.96	A04	P1	4	9/2/2014	3	9	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	2
471	-3757	-3980.74	223.74	A04	P1	4	9/2/2014	3	21	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	3
472	-3922	-3980.74	58.74	A04	P1	4	9/2/2014	3	21	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	4
473	-2960	-3255.07	295.07	A04	P1	4	9/2/2014	3	33	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	5
474	-2574	-3255.07	681.07	A04	P1	4	9/2/2014	3	33	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	6
475	-1985	-2834.88	849.88	A04	P1	4	9/2/2014	3	45	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	7
476	-2113	-2834.88	721.88	A04	P1	4	9/2/2014	3	45	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	8
477	-1462	-2629.58	1167.58	A04	P1	4	9/2/2014	3	57	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	9
478	-1360	-2629.58	1269.58	A04	P1	4	9/2/2014	3	57	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	10
479	-1135	-2597.86	1462.86	A04	P1	4	9/2/2014	3	69	T	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	11
480	-1238	-2597.86	1359.86	A04	P1	4	9/2/2014	3	69	B	0.187	22	Aluminum	Homogeneous	Aluminum - 0.187	Aluminum	1	1	1	1	1	12
493	-7159	-5184.96	-1974.04	A06	17	4	9/3/2014	2	9	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	1
494	-3887	-5184.96	1297.96	A06	17	4	9/3/2014	2	9	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	2
495	-4031	-3980.74	-50.26	A06	17	4	9/3/2014	2	21	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	3
496	-4156	-3980.74	-175.26	A06	17	4	9/3/2014	2	21	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	4
497	-6442	-3255.07	-3186.93	A06	17	4	9/3/2014	2	33	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	5
498	-5289	-3255.07	-2033.93	A06	17	4	9/3/2014	2	33	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	6
499	-5161	-2834.88	-2326.12	A06	17	4	9/3/2014	2	45	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	7
500	-6008	-2834.88	-3173.12	A06	17	4	9/3/2014	2	45	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	8
501	-4392	-2629.58	-1762.42	A06	17	4	9/3/2014	2	57	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	9
502	-4134	-2629.58	-1504.42	A06	17	4	9/3/2014	2	57	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	10
503	-4308	-2597.86	-1710.14	A06	17	4	9/3/2014	2	69	T	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	11
504	-6155	-2597.86	-3557.14	A06	17	4	9/3/2014	2	69	B	1	22	Tape	Rohacell	Rohacell - 1	Aluminum	1	1	1	1	1	12
529	-5186	-5184.96	-1.04	A09	11	4	9/4/2014	2	9	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	1
530	-5980	-5184.96	-795.04	A09	11	4	9/4/2014	2	9	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	2
531	-3817	-3980.74	163.74	A09	11	4	9/4/2014	2	21	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	3
532	-4562	-3980.74	-581.26	A09	11	4	9/4/2014	2	21	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	4
533	-2682	-3255.07	573.07	A09	11	4	9/4/2014	2	33	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	5
534	-2590	-3255.07	665.07	A09	11	4	9/4/2014	2	33	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	6
535	-2261	-2834.88	573.88	A09	11	4	9/4/2014	2	45	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	7
536	-1925	-2834.88	909.88	A09	11	4	9/4/2014	2	45	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	8
537	-2268	-2629.58	361.58	A09	11	4	9/4/2014	2	57	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	9
538	-1909	-2629.58	720.58	A09	11	4	9/4/2014	2	57	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	10
539	-1963	-2597.86	634.86	A09	11	4	9/4/2014	2	69	T	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	11
540	-2011	-2597.86	586.86	A09	11	4	9/4/2014	2	69	B	1	22	Tape	Al Honey	Al Honey - 1	Aluminum	1	1	1	1	1	12
445	-3884	-5184.96	1300.96	A02	8	4	9/5/2014	2	9	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	1
446	-4328	-5184.96	856.96	A02	8	4	9/5/2014	2	9	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	2
447	-3099	-3980.74	881.74	A02	8	4	9/5/2014	2	21	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	3
448	-3064	-3980.74	916.74	A02	8	4	9/5/2014	2	21	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	4
449	-2090	-3255.07	1165.07	A02	8	4	9/5/2014	2	33	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	5
450	-2238	-3255.07	1017.07	A02	8	4	9/5/2014	2	33	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	6
451	-2653	-2834.88	181.88	A02	8	4	9/5/2014	2	45	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	7
452	-1952	-2834.88	882.88	A02	8	4	9/5/2014	2	45	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	8
453	-1656	-2629.58	973.58	A02	8	4	9/5/2014	2	57	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	9
454	-1470	-2629.58	1159.58	A02	8	4	9/5/2014	2	57	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	10
455	-1399	-2597.86	1198.86	A02	8	4	9/5/2014	2	69	T	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	11
456	-1341	-2597.86	1256.86	A02	8	4	9/5/2014	2	69	B	0.3	22	Fabric	Monolithic	Monolithic - 0.3	Aluminum	1	1	1	1	1	12

Variance Components Worksheet

Transformed variable.

Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total	Column1
Panel No[Panel Thickness]	0.3986457	0.0386089	0.1074376	-0.171965	0.2491827	11.669	
Test No[Panel No]	2.017498	0.1953949	0.1011628	-0.002881	0.3936704	59.058	
Residual		0.0968501	0.0061939	0.0857708	0.1102358	29.273	
Total		0.3308539	0.0555536	0.244184	0.4737575	100	

CORRECT ROW NAMES HERE
Panel No[Panel Thickness]
Test No[Panel No]
Residual
Total

Table for charts

Random Effect	Variance Component	Variance Component Standard Deviation	Percent of Total
Panel-to-Panel	0.0386	0.1965	12%
Test-to-Test	0.1954	0.4420	59%
Within-Test	0.0969	0.3112	29%
Total	0.3309	0.5752	100%

(Calculated using transformed response variable)

Random Effect	Var Ratio	Var Component	Std Error	95% Lower	95% Upper	Pct of Total
Panel No	0.3986457	0.0386089	0.1074376	-0.171965	0.2491827	11.669
Test No[LSC Core Load,Aluminum LSC Pla	2.017498	0.1953949	0.1011628	-0.002881	0.3936704	59.058
Residual		0.0968501	0.0061939	0.0857708	0.1102358	29.273
Total		0.3308539	0.0555536	0.244184	0.4737575	100

0.0201	0.0258508	0.0057508	0.286109453
0.02043	0.01583	-0.0046	-0.22515908

Analysis Variables

Test No.[Panel No]& Random	Panel No[Panel Thickness]& Random	Distance from LSC	Panel Thickness	LSC Core Load	Ply	Panel Thickness*LSC Core Load	Panel Thickness*Ply	Panel Thickness*Distance from LSC	LSC Core Load*Ply	LSC Core Load*Distance from LSC	Ply*Distance from LSC	Distance from LSC * Distance from LSC	Sensor Vert Poin T-B

```
Fit Model(
        Cause( :Freq Break Censor ),
        Y( :First Frequency Break Point ),
        Effects(
                :Test No[:Panel No] & Random,
                :Panel No[:Panel Thickness, :Ply] & Random,
                :Distance from LSC,
                :Panel Thickness,
                :LSC Core Load,
                :Ply,
                :Distance from LSC * :Panel Thickness,
                :Distance from LSC * :LSC Core Load,
                :Distance from LSC * :Ply,
                :Panel Thickness * :LSC Core Load,
                :Panel Thickness * :Ply,
                :LSC Core Load * :Ply
        ),
        Keep dialog open( 1 ),
        Personality( "Standard Least Squares" ),
        Emphasis( Effect Leverage ),
        Method( REML )
);
```

Level	Least Sq Mean	What	Std Error	Lower 95%	Upper 95%
[2]2	2029.1904	Test	200.33077	1338.4982	2719.8827
[2]2R	2011.9683	Test	201.18087	1270.4195	2753.5171
[3]3	2097.1819	Test	199.73648	1320.7738	2693.5899
[4]4	1987.4149	Test	201.50704	1251.0639	2723.766
[4]4R	2052.1476	Test	199.51699	1407.0857	2697.2095
[5]5	2037.4932	Test	199.33959	1370.6639	2704.3225
[7]7	2011.1243	Test	199.46104	1338.247	2684.0016
[8]8	2019.2974	Test	199.36046	1363.1422	2675.4525
[8]A1	2006.6984	Test	203.01733	1112.718	2900.6789
[9]9	1999.1126	Test	199.68961	1354.0976	2644.1275
[9]R6	2019.7064	Test	200.75317	1332.4648	2706.948
[10]10	2020.6784	Test	199.33959	1353.8491	2687.5077
[Fabric,0.2]2	2105.8767	Panel	177.75969	1670.3671	2541.3862
[Fabric,0.2]3	1659.121	Panel	209.29856	1096.9284	2221.3137
[Fabric,0.3]4	2031.8354	Panel	177.98082	1626.6798	2477.0232
[Fabric,0.3]5	1592.6835	Panel	204.36962	1090.1478	2095.2192
[Tape,0.2]5	2880.4835	Panel	213.15237	2323.0191	3437.9479
[Tape,0.2]10	2311.3835	Panel	213.15237	1753.9191	2868.8479
[Tape,0.3]3	1854.5904	Panel	255.38973	1302.4228	2406.758
[Tape,0.3]9	1678.6832	Panel	174.38324	1260.8844	2096.482

Figure C1. Summary of Results – Test Configuration and Associated Data

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14. ABSTRACT

The NASA Engineering and Safety Center (NESC) received a request to develop an analysis model based on both frequency response and wave propagation analyses for predicting shock response spectrum (SRS) on composite materials subjected to pyroshock loading. The model would account for near-field environment (~9 inches from the source) dominated by direct wave propagation, mid-field environment (~2 feet from the source) characterized by wave propagation and structural resonances, and far-field environment dominated by lower frequency bending waves in the structure. This document contains appendices to the Volume I report.

15. SUBJECT TERMS

NASA Engineering and Safety Center; Shock response spectrum; Pyroshock loading; Model development

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